Pioneer sound.vision.soul

Service Manual



ORDER NO. ARP3396

PLASMA TELEVISION

PDP-507XD PDP-507XG

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Туре	Power Requirement	Remarks
PDP-507XD	WYVIXK5	AC 220 V to 240 V	
PDP-507XG	WYVIXK5	AC 220 V to 240 V	
PDP-507XA	WYV5	AC 220 V to 240 V	



For details, refer to "Important Check Points for good servicing".

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1. NOTES ON SERVICE VISIT

1.1 SAFETY INFORMATION



This service manual is intended for qualified service technicians; it is not meant for the casual do-it-vourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols - (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible - (fusible de type rapide) et/ou - (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

SAFETY PRECAUTIONS

NOTICE: Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis.

The following precautions should be observed:

- 1. When service is required, even though the PDP UNIT an isolation transformer should be inserted between the power line and the set in safety before any service is performed.
- 2. When replacing a chassis in the set, all the protective devices must be put back in place, such as barriers, nonmetallic knobs, adjustment and compartment covershields, isolation resistorcapacitor, etc.
- 3. When service is required, observe the original lead dress. Extra precaution should be taken to assure correct lead dress in the high voltage circuitry area.
 - 4. Always use the manufacture's replacement components. Especially critical components as indicated on the circuit diagram should not be replaced by other manufacture's. Furthermore where a short circuit has occurred, replace those components that indicate evidence of overheating.
 - 5. Before returning a serviced set to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the set by the manufacture has become defective, or inadvertently defeated during servicing. Therefore, the following checks should be performed for the continued protection of the customer and servicetechnician.

- 6. Perform the following precautions against unwanted radiation and rise in internal temperature.
- Always return the internal wiring to the original styling.
- Attach parts (Gascket, Ferrite Core, Ground, Rear Cover, Shield Case etc.) surely after disassembly.
- 7. Perform the following precautions for the PDP panel.
- When the front case is removed, make sure nothing hits the panel face, panel corner, and panel edge (so that the glass does not break).
- Make sure that the panel vent does not break. (Check that the cover is attached.)
- Handle the FPC connected to the panel carefully. Twisting or pulling the FPC when connecting it to the connector will cause it to peel off from the panel.
- 8. Pay attention to the following.
- Pay extreme caution when the front case and rear panel are removed because this may cause a high risk of disturbance to TVs and radios in the surrounding.

Leakage Current Cold Check

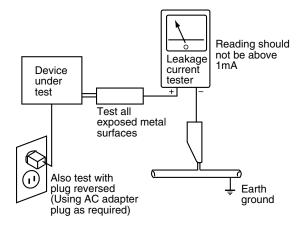
With the AC plug removed from an AC power source, place a jumper across the two plug prongs. Turn the AC power switch on. Using an insulation tester (DC 500V), connect one lead to the jumpered AC plug and touch the other lead to each exposed metal part (input/output terminals, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis. Exposed metal parts having a return path to the chassis should have a minimum resistor reading of $4M\Omega$. The below $4M\Omega$ resistor value indicate an abnormality which require corrective action. Exposed metal parts not having a return path to the chassis will indicate an open circuit.

Leakage Current Hot Check

Plug the AC line cord directly into an AC power source (do not use an isolation transformer for this check).

Turn the AC power switch on.

Using a "Leakage Current Tester (Simpson Model 229 equivalent)", measure for current from all exposed metal parts of the cabinet (input/output terminals, screwheads, metal overlays, control shaft, etc.), particularly any exposed metal part having a return path to the chassis, to a known earth ground (water pipe, conduit, etc.). Any current measured must not exceed 1mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE SET TO THE CUSTOMER.

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in PIONEER set have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a \triangle on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

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■ Charged Section

A The places where the commercial AC power is used without passing through the power supply transformer.

If the places are touched, there is a risk of electric shock. In addition, the measuring equipment can be damaged if it is connected to the GND of the charged section and the GND of the non-charged section while connecting the set directly to the commercial AC power supply. Therefore, be sure to connect the set via an insulated transformer and supply the current.

- 1. Power Cord
- 2. AC Inlet
- 3. Power Switch (S1)
 - 4. Fuse (In the POWER SUPPLY Unit)
 - 5. STB Transformer and Converter Transformer (In the POWER SUPPLY Unit)
 - 6. Other primary side of the POWER SUPPLY Unit

■ High Voltage Generating Point

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The places where voltage is 100 V or more except for the charged places described above. If the places are touched, there is a risk of electric shock.

The VSUS voltage remains for several minutes after the power to the unit is turned off. These places must not be touched until about 10 minutes after the power is turned off, or it is confirmed with a tester that there is no residual VSUS voltage.

If the procedures described in "10.3 POWER ON/OFF FUNC-TION FOR THE LARGE-SIGNAL SYSTEM" are performed before the power is turned off, the voltage will be discharged in about 30 seconds.

POWER SUPPLY UNIT	(205 V)
50 X MAIN DRIVE Assy	(-180 V to 205 V)
50 X SUB DRIVE Assy	(-180 V to 205 V)
50 Y MAIN DRIVE Assy	(500 V)
50 Y SUB DRIVE Assy	(350 V)
50 SCAN A Assy	(500 V)
50 SCAN B Assy	(500 V)

C Part is Charged Section.

: Part is the High Voltage Generating Points other than the Charged Section.

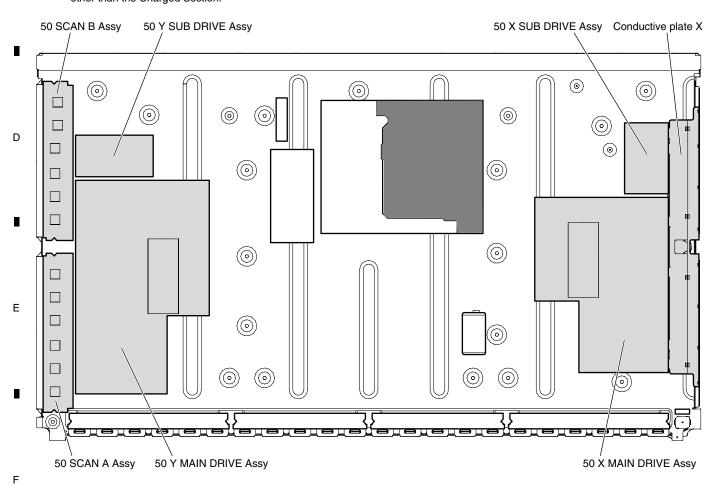


Fig.1 High Voltage Generating Point (Rear view)

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PDP-507XD

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Please be sure to confirm and follow these procedures.

Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

1) Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

3 Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. (Refer to the example)

4 Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

(6) Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

® There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

10 Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws

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To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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Quick Reference upon Service Visit (1) Notes, PD/SD diagnosis, and methods for various settings

Notes when visiting for service

1. Notes when disassembling/reassembling

1) Rear case

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When reassembling the rear case, the screws must be tightened in a specific order. Be careful not to tighten them in the wrong order forcibly. For details, see "Rear Case" in "6. DISASSEMBLY"

Attaching screws for the HDMI connector

When attaching the HDMI connector after replacing the Main Assy, secure the HDMI connector manually with a screwdriver, but not with an electric screwdriver. If you tighten the screws too tightly with an electric screwdriver, the screw heads may be damaged, in which case the screws cannot be untightened/tightened any more.

2. On parts replacement

1) How to discharge before replacing the Assys

A charge of significant voltage remains in the Plasma Panel even after the power is turned off. Safely discharge the panel before replacement of parts, in either manner indicated below:

A: Let the panel sit at least for 3 minutes after the power is turned off.

B: Turn the Large Signal System off before the power is turned off then, after 1 minute, turn the power off.
For details, see "10.3 Power ON/OFF Function for the Large-Signal

System.'

2 On the settings after replacement of the Assys Some boards need settings made after replacement of the Assys. For details, see "7. ADJUSTMENT"

3. On various settings

After a repair using a PC, be sure to restore the setting for the RS-232C connector to SR+.

2 Setting in Factory mode

After a Mask indication into the panel is performed, be sure to set the Mask setting to "OFF" then exit Factory mode.

	PD/SD			Change of settings		
	Item	No. of	LEDs	How to enter Factory mode using the supplied remote control unit		
			Blue	In the same way as with the remote		
Panel section	Communication with the panel drive IC		Blue 1	control unit supplied with the 6th-		
sect	Communication with the module IIC		Blue 2	generation model		
<u>ē</u>	DIGTAL-RST2		Blue 3	How to enter Integrator mode using		
Paı	Panel high temperature		Blue 4	the supplied remote control unit		
	Audio		Blue 5	Enter the Standby mode.		
	Communication with the Module microcomputer		Blue 6	② Press [MENU]. ③ Press [TV 🖒].		
5	Main 3-wire serial communication		Blue 7			
탏	Main IIC communication		Blue 8	How to switch UART ① (Integrator)		
Mair	Communication with the Main microcomputer		Blue 9	① Enter the Integrator mode.		
	FAN		Blue 10	② Display "OFF" using [➡].		
	Unit high temperature		Blue 11	③ Change the communication speed using [♣], then [➡].		
	Communication with the D-TUNER		Blue 12	01112		
	MTB-RST2/RST4		Blue 13	How to switch UART ② (During Standby		
PC	WER	Red 2		① Enter the Standby mode.		
SC	Tied 5					
SC	N-5V	Red 4		3 Hold [SPLIT] pressed for 3 seconds.4-1 To set to 232C, press [ENTER].		
Y-[DRIVE	Red 5		(5)-2 To set to SR+, press [HOME MENU].		
Y-[OCDC	Red 6				
Y-5	Y-SUS ADRS			Note: If switching is completed successfully the red LED will flash twice.		
AD				Note 1: Use a remote control unit supplied with		
X-I	X-DRIVE			the 6th-generation models or later.		
X-I	OCDC	Red 10		Note 2: Do not hold a key pressed for more than 5 seconds.		
Χ-9	SUS	Red 11		tidii o seconds.		
UN	IKNOWN	Red 15				

How to locate several items on the Factory menu

}: Item on the Factory menu] : Key on the remote control unit Screen indication

1. Confirmation of accumulated power-on time and power-on count

Select {INFORMATION} then {HOUR METER}. (After entering Factory mode, press [♣] four times.)

2. Confirmation of the Power-down and Shutdown histories

Panel system

PD: Select {PANEL FACTORY} then {POWER DOWN}. (After entering Factory mode, press [MUTING] once, press

[ENTER], then press [♣] three times.)
SD: Select {PANEL FACTORY} then {SHUT DOWN}. (After entering Factory mode, press [MUTING] once, press [ENTER], then press [♣] four times.)

Select (INFORMATION) then (MAIN NG). (After entering Factory mode, press [♣] three times.)

3. How to display the Mask indication

1) Mask indication in the panel side

- Select {PANEL FACTORY} then {RASTER MASK SETUP}. (After entering Factory mode, press [MUTING] once, press [ENTER],
- then press $[\clubsuit]$ 8 times.)

 2. Press [ENTER], then select a Mask indication, using $[\P]$ or $[\clubsuit]$.
- 2 Mask (SG screen) indication in the Main Assy (MAIN VDEC)
- 1. Select either Input 1 or 2, to which no signal is input (black screen).
- 2. Select {INITIALIZE} then {SG MODE}. Press [←]. (After entering Factory mode, press [MUTING] three times, then press [♣] once.) Then, the indication at the lower right of the screen changes from "OFF" to "ANA AD YCBCR".
- 3. You can change Mask patterns by pressing [♣] to select {SG PATTERN} then using [←] or [→].

 Note: When you switch "SG MODE" routes, some displays become

monochrome, as they are in Y-signal only mode.

Adjustments and Settings after replacement of the Assys (Procedures in Factory mode)

- Digital Video Assy: Transfer of backup data

 Select {PANEL FACTORY}, {ETC}, then {BACKUP DATA}. (After entering Factory mode, press [MUTING] once, press [ENTER], press [♣] seven times, then press
 - Select {TRANSFER}, using [➡], then hold [SET] pressed for at least 5 seconds.
 - 3 After transfer of backup data is completed, (ETC) is automatically selected, and the LED on the front panel returns to normal lighting.

2. MAIN Assy: Switching to SR+ from RS-232C

- ① Enter the Integrator mode. (The way is described above.)
- ② As SR+ <=> is [OFF] state, switch to [ON] state by using [➡].
 ③ Turn the POWER switch of the main unit off by the remote control.

3. POWER SUPPLY Unit: Clearance of the accumulated power-on count and maximum temperature value

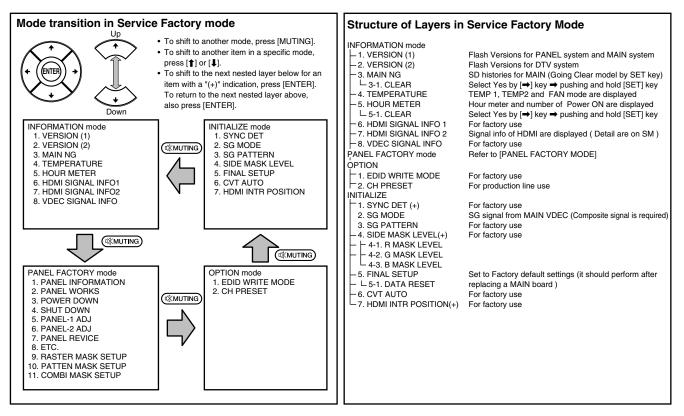
- Select (PANEL FACTORY), (ETC), then (P COUNT INFO). (After entering Factory mode, press [MUTING] once, press [ENTER], press [♣] seven times, press [ENTER],
- ② Press [→] to select "CLEAR". Hold [SET] pressed for at least 5 seconds. After clearance is completed, "ETC" is automatically selected. Clear the maximum temperature value (MAX TEMP) in the same manner

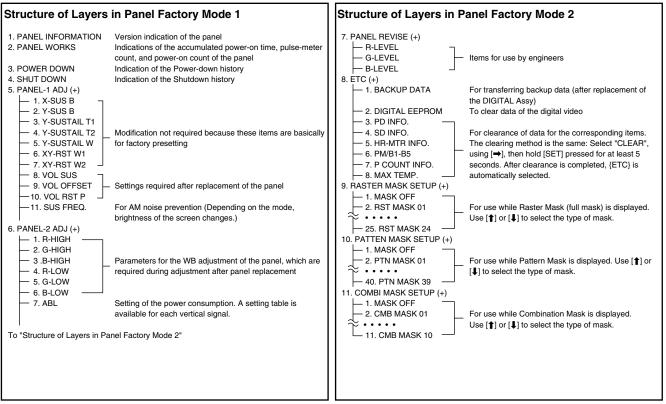
4. Other Assys: Clearance of the maximum temperature value

- Select (PANEL FACTORY), (ETC), then (MAX TEMP). (After entering Factory mode, press [MUTING] once, press [ENTER], press [\$\star*] seven times, press [ENTER], then press [1] seven times.
- Press [➡] to select "CLEAR". Hold [SET] pressed for at least 5 seconds. After clearance is completed, "ETC" is automatically selected

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Quick Reference upon Service Visit ② Mode transition and structure of layers in Service Factory mode





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1.3 JIGS LIST



■ Cleaning

Name	Part No.	Remarks
Cleaning liquid	GEM1004	Used to fan cleaning.
Cleaning paper	GED-008	Refer to "2.4 CHASSIS SECTION (1/2).

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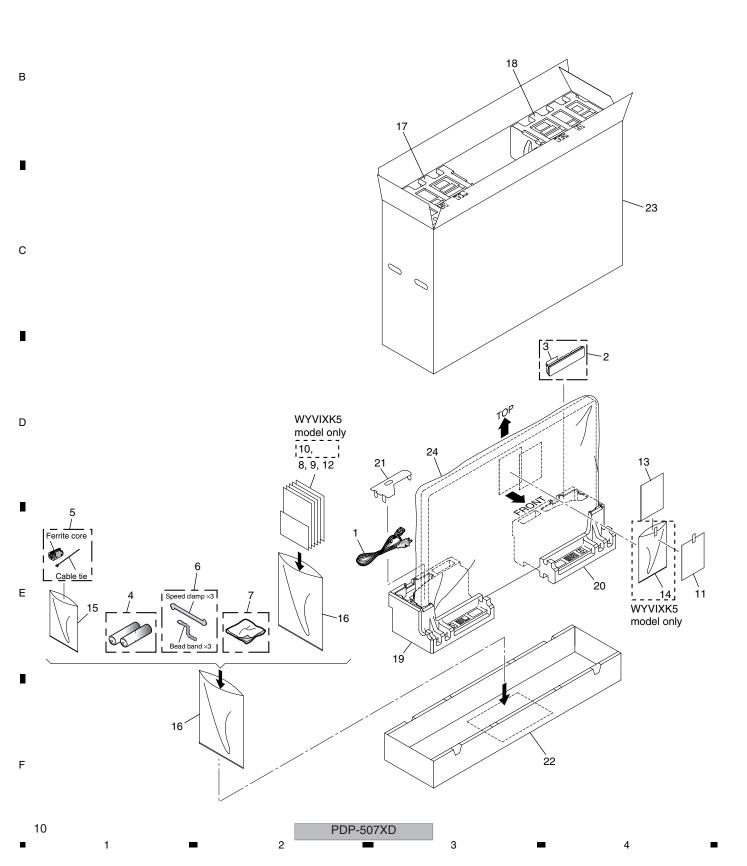
2. EXPLODED VIEWS AND PARTS LIST

NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Screws adjacent to **▼** mark on product are used for disassembly.
- For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

2.1 PACKING SECTION

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(1) PACKING PARTS LIST

<u>Mark</u>	No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.	
<u> </u>	1	Power Cord (2 m)	ADG1214	15	Vinyl Bag	AHG1337	
	2	Remote Control Unit	See Contrast table (2)	16	Vinyl Bag	AHG1340	Α
	3	Battery Cover	AZN2626	17	Pad (507 T-L)	See Contrast table (2)	
NSP	4	Dry Cell Battery (R06, AA)	VEM1031	18	Pad (507 T-R)	See Contrast table (2)	
\triangle	5	Ferrite Core	ATX1039	19	Pad (507 B-L)	See Contrast table (2)	
	6	Binder Assy	AEC1908	20	Pad (507 B-R)	See Contrast table (2)	_
	7	Cleaning Cloth	AED1285	21	Power Cord Lid	See Contrast table (2)	
	8	Operating Instructions	See Contrast table (2)	22	Under Carton (507)	See Contrast table (2)	
		(Italian, Spanish, Dutch)	()	23	Upper Carton	See Contrast table (2)	
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		(English, French, German)	, ,				
							E
	10	Block Diagram	See Contrast table (2)				
	11	Caution Card	See Contrast table (2)				
	12	Cleaning Caution	See Contrast table (2)				
NSP	13	Warranty Card	ARY1114				
	14	Polyethlene Bag	See Contrast table (2)				

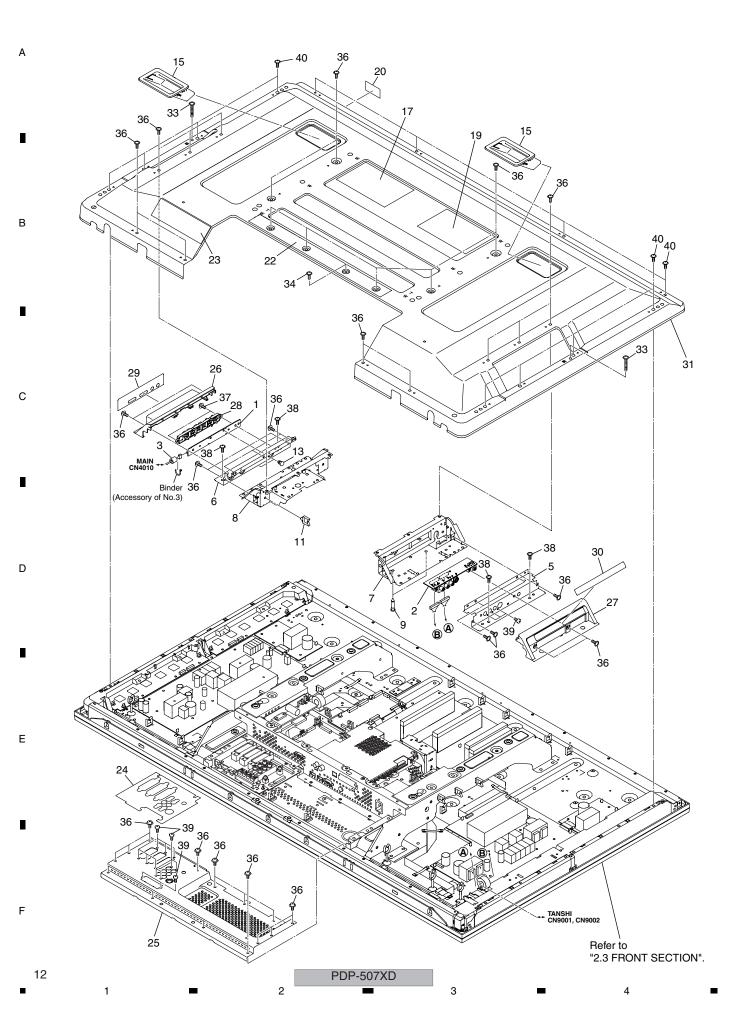
(2) CONTRAST TABLE PDP-507XD/WYVIXK5, PDP-507XA/WYVIXK5 and WYV5 are constructed the same except for the following:

Mark	No.	Symbol and Description	PDP-507XD /WYVIXK5	PDP-507XA /WYVIXK5	PDP-507XA /WYV5
	2	Remote Control Unit	AXD1532	AXD1540	AXD1540
	8	Operating Instructions (Italian, Spanish, Dutch)	ARC1562	ARC1564	ARC1563
	9	Operating Instructions (English, French, German)	ARE1428	ARE1430	ARE1429
	10	Block Diagram	ARY1189	ARY1189	Not used
	11	Caution Card	ARM1310	ARM1310	ARM1232
	12	Cleaning Caution	ARM1311	ARM1311	ARM1283
	14	Polyethylene Bag	AHG1326	AHG1326	Not used
	17	Pad (507 T-L)	AHA2558	AHA2558	AHA2538
	18	Pad (507 T-R)	AHA2559	AHA2559	AHA2539
	19	Pad (507 B-L)	AHA2560	AHA2560	AHA2540
	20	Pad (507 B-R)	AHA2561	AHA2561	AHA2541
	21	Power Cord Lid	AHC1087	AHC1087	AHC1085
	22	Under Carton (507)	AHD3498	AHD3498	AHD3473
	23	Upper Carton (507XD)	AHD3521	Not used	Not used
	23	Upper Carton (507XA)	Not used	AHD3499	AHD3522
	24	Mirror Mat	AHG1327	AHG1327	AHG1284

11

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(1) REAR SECTION PARTS LIST

Mark No.	<u>Description</u>	Part No.	Mark No.	Description	Part No.	
1	SIDE KEY Assy	AWW1133	21	••••		
2	SIDE Assy	AWW1162	22	Terminal Label A (E/T)	See Contrast table (2)	Α
3	Filter	CTX1054	23	Terminal Label C (E/T)	AAX3339	
4	••••		24	Terminal Label B50 (E/HT)	AAX3418	
5	Side Input Panel (E)	ANC2418	25	Terminal Panel B (50E)	ANC2410	
6	Function Button Base	ANG2923	26	Function Button Panel	AMB2906	
7	Side Input Shield	ANK1834	27	Side Input Cover	AMB2911	-
8	Function Button Shield	ANK1835	28	Function Button (E)	AAC1565	
NSP 9	PCB Support	AEC1288	29	Function Button Sheet (E)	AAK2896	
10	••••		30	Input Cover Label E	See Contrast table (2)	
11	Wire Saddle	AEC1745	31	Rear Case (507)	ANE1656	В
12	••••		32	••••		
13	Locking Card Spacer	AEC2019	33	Screw (3 x 40P)	ABA1332	
14	••••		34	Screw	ABA1341	
15	Inner Grip Assy	AMR3434	35	••••		
16	••••		36	Screw	AMZ30P060FTB	
NSP 17	Name Label	See Contrast table (2)	37	Screw	AMZ30P080FTC	
18	••••	, ,	38	Screw	APZ30P080FTB	
19	Bolt Caution Label	See Contrast table (2)	39	Screw	BPZ30P080FTB	
20	Serial Seal	AAX3143	40	Screw	TBZ40P080FTB	
						С

(2) CONTRAST TABLE PDP-507XD/WYVIXK5, PDP-507XA/WYVIXK5 and WYV5 are constructed the same except for the following:

Mark	No.	Symbol and Description	PDP-507XD /WYVIXK5	PDP-507XA /WYVIXK5	PDP-507XA /WYV5
NSP	17	Name Label (507XD)	AAL2813	Not used	Not used
NSP	17	Name Label (507XA)	Not used	AAL2815	AAL2814
	19	Bolt Caution Label	AAX3005	AAX3005	AAX3117
	22	Terminal Label A	AAX3337	AAX3398	AAX3332
	30	Input Cover Label E	AAX3396	AAX3396	AAX3375

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Refer to "2.4 CHASSIS SECTION (1/2)".

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(1) FRONT SECTION PARTS LIST

Mark No.	<u>Description</u>	Part No.	
1	50 LED Assy	AWW1135	
2	LED IR Assy	AWW1136	
3	Front Case Assy	See Contrast table (2)	
4	Corner Cushion	AEB1416	
5	Pioneer Name Plate	AAM1098	
6	Coil Spring	ABH1120	
7	Blind Cushion	AEB1415	
8	Nyron Rivet	AEC1671	
9	Screw Rivet	AEC1877	
10	Insulation Sheet A	AED1283	
11	Insulation Sheet B	AED1284	
12	Power Button	AAD4133	
13	3P Housing Wire (J130)	ADX3424	
14	IR Block Cushion	AEB1465	
15	IR Reducer	AAX3455	

(2) CONTRAST TABLEPDP-507XD/WYVIXK5, PDP-507XA/WYVIXK5 and WYV5 are constructed the same except for the following:

Mark	No.	Symbol and Description	PDP-507XD /WYVIXK5	PDP-507XA /WYVIXK5	PDP-507XA /WYV5
	3	Front Case Assy (507PE/D)	AMB2945	Not used	Not used
	3 Front Case Assy (507PE/A)		Not used	AMB2946	AMB2946

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Description

Mark No.

,			

<u> </u>	1	Power Switch (S1)	ASG1092
	2	Ferrite Core	ATX1044
<u> </u>	3	Fan Motor 80 x 25L	AXM1059
	4	Housing Wire (J103)	ADX3320
	5	Front Chassis VL (50)	AMA1014
	6	Front Chassis VR (507)	AMA1022
	7	Sub Frame L Assy 507	ANA1945
	8	Sub Frame R Assy 507	ANA1946
	9	Front Chassis H Assy (507)	ANA2031
	10	Panel Holder H (50)	ANG2769
	11	Panel Holder V1 (50)	ANG2770
	12	Panel Holder V2 (50)	ANG2771
	13	Fan Holder	ANG2833
	14	Multi Base Holder	ANG2937
	15	Floating Rubber 80	AEB1427

ANG2771
ANG2833
ANG2937
AEB1427
AEC1570

ABA1364

Part No.

16	PCB Spacer	AEC1570
17	Wire Saddle	AEC1745
18	Ferrite Core Holder	AEC1818
19	Re-use Wire Saddle	AEC1945

20	•	•	•	•	•	

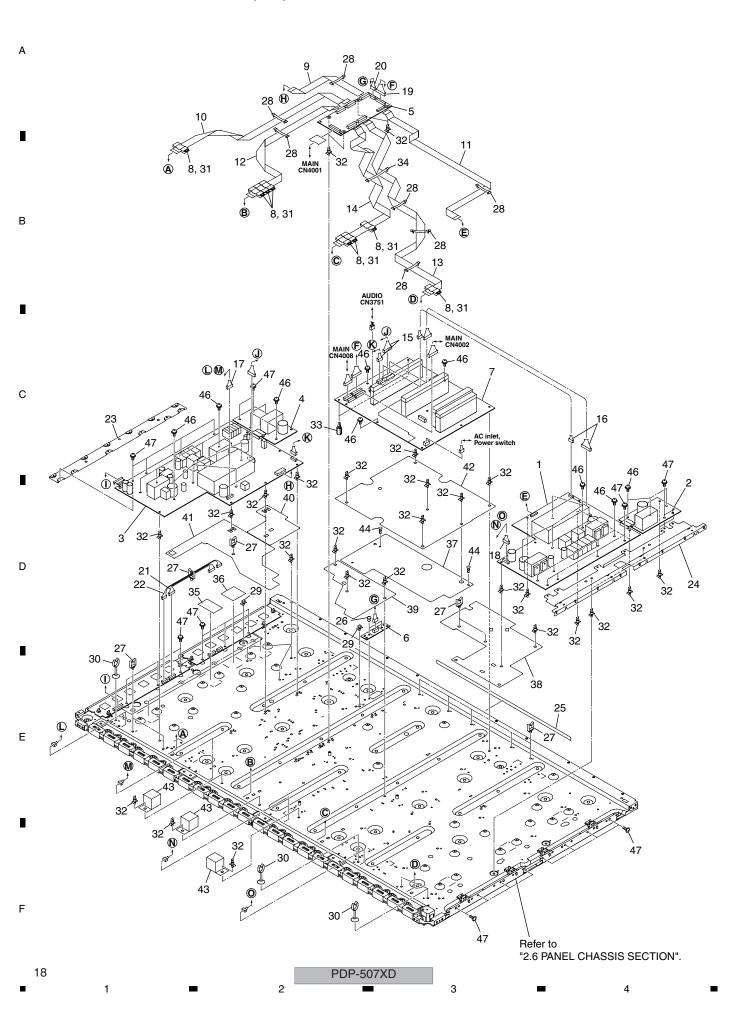
28 Screw

21	Screw	ABA1351
22	Screw	ABZ30P080FTC
23	Screw	AMZ30P060FTB
24	Screw	APZ30P080FTB
25	Screw	BBZ30P060FTC
26	Screw	BPZ30P080FTB
27	Screw	TBZ40P080FTB

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•			5	6	-	7	-	8	
			S SECTION (2/2) PARTS						
N	<u>/lark N</u>		<u>Description</u>	Part No.					
		1	50 X MAIN DRIVE Assy	AWW1143					
		2	50 X SUB DRIVE Assy	AWW1144					Α
		3	50 Y MAIN DRIVE Assy	AWW1145					
		4	50 Y SUB DRIVE Assy	AWW1146					
		5	50 DIGITAL Assy	AWW1139					
		6	SENSOR Assy	AWW1140					
6		7	POWER SUPPLY Unit	AXY1153					_
		8	Ferrite Core	ATX1048					
		9	Flexible Cable (J201)	ADD1435					
	1	10	Flexible Cable (J202)	ADD1436					
	1	11	Flexible Cable (J206)	ADD1440					В
	1	12	Flexible Cable (J203)	ADD1463					
	1	13	Flexible Cable (J205)	ADD1465					
		14	Flexible Cable (J204)	ADD1466					
	1	15	9P&6/5P Housing Wire (J101)	ADX3368					_
	1	16	8P&5P Housing Wire (J102)	ADX3369					
	1	17	8P/4P Housing Wire (J108)	ADX3370					
	1	18	8P/4P Housing Wire (J109)	ADX3371					
		19	14P Housing Wire (J105)	ADX3323					
	2	20	5P Housing Wire (J110)	ADX3328					С
	2	21	10P Housing Wire (J120)	ADX3378					
	2	22	4P Housing Wire (J119)	ADX3377					
		23	Conductive Plate Y	ANG2902					
		24	Conductive Plate X	ANG2905					_
	2	25	Waterproof Cushion	AEB1424					
	2	26	Nyron Rivet	AEC1671					
	2	27	Wire Saddle	AEC1745					
	2	28	Flat Clamp	AEC1879					
		29	PCB Support	AEC1938					D
	3	30	Harness Lifter 28	AEC1982					
	3	31	Ferrite Clamp	AEC1986					
		32	Re-use PCB Spacer	AEC2087					
		33	Tapping Card Spacer	AEC2103					
	3	34	Flat Clamp 60	AEC2104					
	3	35	Drive Silicone Sheet B	AEH1109					
	3	36	Drive Silicone Sheet C	AEH1110					
	3	37	Power Supply Sheet B (507)	AMR3555					
	3	38	Address Sheet A	AMR3628					E
		39	Address Sheet B	AMR3629					
	2	40	Address Sheet C	AMR3630					
	2	41	Address Sheet D	AMR3631					
	4	42	Power Supply Sheet (507)	AMR3634					
	4	43	Gasket AV8	ANK1881					_
		44	Rivet A	BEC1158					
	/	15							

ABA1351

ABA1364

45 ••••

46 Screw

47 Screw

5

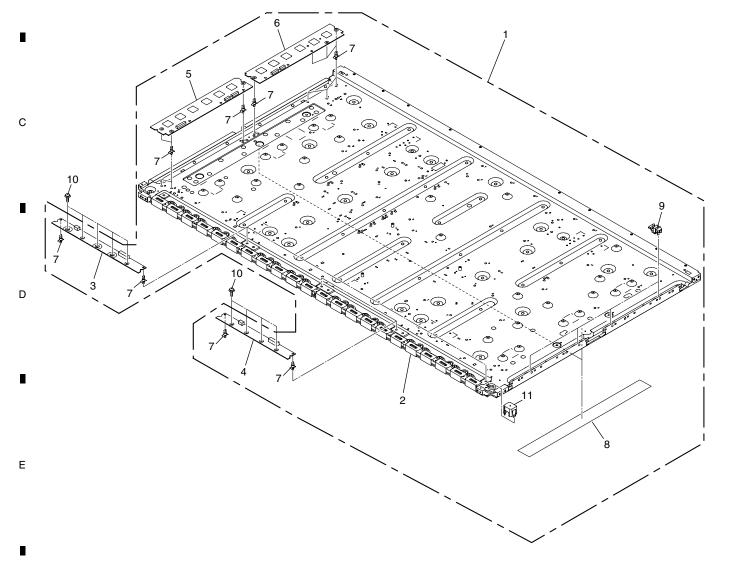
PDP-507XD

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PANEL CHASSIS SECTION PARTS LIST

Mark No.	<u>Description</u>	Part No.
NSP 1	Panel Chassis (507) Assy	AWU1148
NSP 2	Plasma Panel (50DC) Assy	AWU1162
NSP 3	50 ADDRESS L Assy	AWW1141
NSP 4	50 ADDRESS S Assy	AWW1142
NSP 5	50 SCAN A Assy	AWW1147
NSP 6	50 SCAN B Assy	AWW1148
7	Re-use PCB Spacer	AEC2088
NSP 8	Adhesive Tape (50)	AEH1119
9	Conductive Plate Holder	AMR3446
10	Screw	ABA1351

AMR3445

NSP 11 Tube Cover

PDP-507XD

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21

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(1) MULTIBASE SECTION PARTS LIST

Mark	No.	<u>Description</u>	Part No.	Mark	<u>No.</u>	Description	Part No.	
	1	MAIN Assy	AWV2308		26	7/6/4/3P Housing Wire (J128)	ADX3422	
	2	TANSHI Assy	AWW1161		27	6P/3P Housing Wire (J129)	ADX3423	Α
	3	PC Assy	AWW1163		28	Ferrite Stopper	AEC1981	
	4	AUDIO Assy	AWW1131		29	Binder	AEC-093	
	5	SP TERMINAL Assy	AWW1132		30	Locking Card Spacer	AEC1429	
	6	R07 DT Assy	See Contrast table (2)		31	Wire Saddle	AEC1745	
	7	Ferrite Core	ATX1044		32	Ferrite Core Holder	AEC1818	
	8	Ferrite Core	ATX1063		33	Clamp	AEC1884	
	9	Ferrite Core	ATX1064		34	Re-use Wire Saddle	AEC1945	
	10	Filter	See Contrast table (2)		35	Locking Card Spacer	AEC2019	
<u> </u>	11	AC Inlet (CN1)	AKP1301		36	Locking Card Spacer	AEC2093	В
	12	Flexible Cable (J210)	ADD1441		37	Inlet Spacer	AEC2112	
	13	Flexible Cable (J211)	ADD1441		38	POD Cover	See Contrast table (2)	
	14	Flexible Cable (J207)	ADD1445		39	Multi Base Assy	See Contrast table (2)	
	15	Flexible Cable (J214)	See Contrast table (2)		40	Terminal Panel A	See Contrast table (2)	
	16	Flexible Cable (J215)	See Contrast table (2)	\triangle	41	Gasket N	See Contrast table (2)	
	17	Flexible Cable (J213)	See Contrast table (2)	<u> </u>	42	Gasket EA	ANK1855	
	18	13P&11P Housing Wire (J106)	ADX3324	<u> </u>	43	Gasket AD	See Contrast table (2)	
	19	3P Housing Wire (J107)	ADX3325	<u> </u>	44	Gasket EB	ANK1899	
	20	11P Housing Wire (J111)	ADX3329		45	Filter	CTX1054	_
								С
	21	14P Housing Wire (J116)	ADX3374		46	• • • •		
	22	8/4P Housing Wire (J117)	ADX3376		47	Hex. Head Screw	BBA1051	
	23	5P Housing Wire (J125)	ADX3389		48	Screw	AMZ30P060FTB	
	24	12P Housing Wire (J126)	See Contrast table (2)		49	Screw	See Contrast table (2)	
	25	3P Housing Wire (J127)	ADX3421		50	Screw	BMZ30P060FTB	
					51	Screw	PMB30P080FNI	

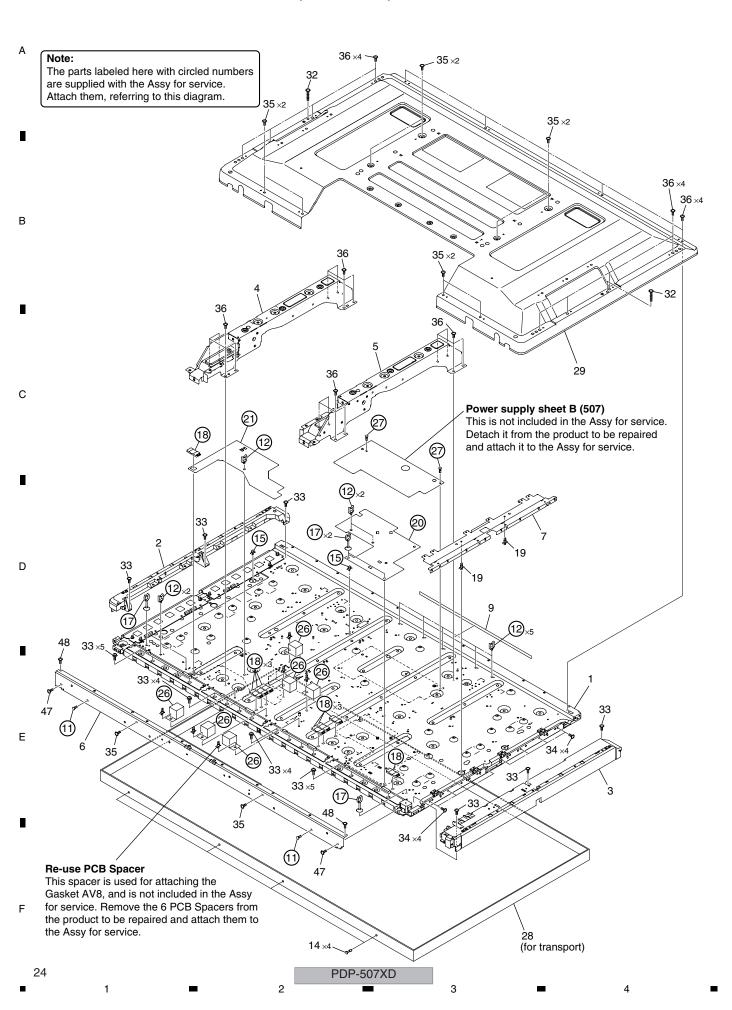
(2) CONTRAST TABLE

PDP-507XD/WYVIXK5, PDP-507XA/WYVIXK5 and WYV5 are constructed the same except for the following:

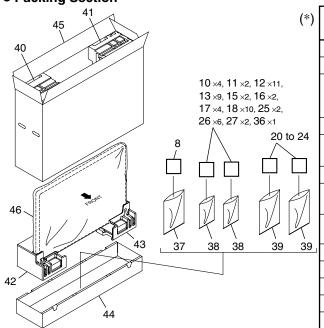
/lark No	o. Symbol and Description	PDP-507XD /WYVIXK5	PDP-507XA /WYVIXK5	PDP-507XA /WYV5	
6	R07 DT Assy	AWE1131	Not used	Not used	
10	Filter	CTX1054	Not used	Not used	
15	Flexible Cable (J214)	ADD1450	Not used	Not used	
10	Flexible Cable (J215)	ADD1451	Not used	Not used	
1	Flexible Cable (J213)	ADD1452	ADD1452	ADD1444	
2	1 12P Housing Wire (J126)	ADX3390	Not used	Not used	
38	POD Cover	AMR3542	Not used	Not used	
3:	Multi Base (E) Assy	ANA1952	Not used	Not used	
3:	Multi Base (G) Assy	Not used	ANA2019	ANA2019	
4	Terminal Panel A (E/H)	ANC2398	Not used	Not used	
4	Terminal Panel A (E/T)	Not used	ANC2399	ANC2399	
<u> </u>	1 Gasket N	ANK1776	Not used	Not used	
<u> </u>	Gasket AD	ANK1863	Not used	Not used	
4	9 Screw	BZ30P060FTB	Not used	Not used	

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● Packing Section



	No.	Part Name	Part No.	No. of pcs	Remarks
	8	Clamp base	ANG3030	×1	Not used
	10	PCB spacer	AEC1126	×4	Not used
	12	Wire saddle	AEC1745	×11	Ten of the 11 wire saddles are to be used with this unit. Attach them to the places where T indications are engraved.
	13	Wire saddle	AEC1751	×9	Not used
	15	PCB support	AEC1938	×2	Attach them to the places where C indications are engraved.
	16	PCB support	AEC1958	×2	Not used
	17	Harness lifter 28	AEC1982	×4	Attach them to the places where U indications are engraved.
	18	Ferrite clamp	AEC1986	×10	Eight of the 10 ferrite clamps are to be used with this unit.
J	22	DC sheet A	AMR3612	×1	Not used
	23	Address sheet E	AMR3621	×1	Not used
	24	Address sheet D	AMR3631	×1	Not used
	25	Gasket E	ANK1874	×2	Not used
	36	Screw	TBZ40P080FTB	×13	Twelve screws have been already secured to the Assy. The remaining one screw packed in a plastic bag is not used with this unit.

PDP SERVICE ASSY 507 (AWU1212) PARTS LIST

Mark No.	<u>Description</u>	Part No.	Mark No.	Description	Part No.
NSP 1	Panel Chassis (507) Assy	AWU1148	26	Gasket AV8	ANK1881
2	Front Chassis VL (50)	AMA1014	27	Rivet A	BEC1158
3	Front Chassis VR (507)	AMA1022	NSP 28	Front Case Assy (507SV)	AMB2977
4	Sub Frame L Assy 507	ANA1945	29	Rear Case (507)	ANE1656
5	Sub Frame R Assy 507	ANA1946	30	Caution Label	AAX3031
6	Front Chassis H Assy (507)	ANA2031	NSP 31	Drive Voltage Label	ARW1097
6 7	Conductive Plate X	ANG2905	32	Screw (3 x 40P)	ABA1332
8	Clamp Base (*)	ANG3030	33	Screw	ABA1351
9	Cushion	AEB1424	34	Screw	ABA1364
NSP 10	PCB Spacer (*)	AEC1126	35	Screw	AMZ30P060FTB
	. 02 opass. ()	00			
11	PCB Spacer	AEC1570	36	Screw (*)	TBZ40P080FTB
12	Wire Saddle (*)	AEC1745	37	Polyethylene Bag	AHG1337
13	Wire Saddle (*)	AEC1751	38	Polyethylene Bag S	AHG1338
14	Screw Rivet	AEC1877	39	Polyethylene Bag	AHG1340
15	PCB Support (*)	AEC1938	40	Pad (507 T-L)	AHA2538
16	PCB Support (*)	AEC1958	41	Pad (507 T-R)	AHA2539
17	Harness Lifter 28 (*)	AEC1982	42	Pad (507 B-L)	AHA2540
18	Ferrite Clamp (*)	AEC1986	43	Pad (507 B-R)	AHA2541
19	Re-use PCB Spacer	AEC2087	44	Under Carton (507)	AHD3473
20	Address Sheet A	AMR3628	45	Upper Carton (507SV)	AHD3550
			46	Protect Sheet	AHG1331
21	Address Sheet F	AMR3646	47	Screw	ABZ30P080FTC
22	DC Sheet A (*)	AMR3612			
23	Address Sheet E (*)	AMR3621	48	Screw	APZ30P080FTB
24	Address Sheet D (*)	AMR3631			
25	Gasket E (*)	ANK1874			

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PDP-507XD

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3. PCB PARTS LIST

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NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

• The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

• When ordering resistors, first convert resistance values into code form as shown in the following examples. Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

3

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

 $5.62k \Omega \rightarrow 562 \times 10^{-1} \rightarrow 5621 \dots RN1/4PC \boxed{5} \boxed{6} \boxed{2} \boxed{1} F$

В		No. Description	Part No.	Mark		cription	Part No.
	<u>LI5 I</u>	OF ASSEMBLIES			1001		STV0361L
				Q	1001		2SC2412K
		1PANEL CHASSIS (507) ASSY	AWU1148	Q Q	1002 1003,1004		DTC124EUA RK7002
	NSP	250 ADDRESS ASSY	AWV2303	Q	1003,1004		NN/002
	NSP	350 ADDRESS L ASSY	AWW1141	⚠D	1000		SM15T6V8A
	NSP NSP	350 ADDRESS S ASSY 250 SCAN ASSY	AWW1142 AWV2304	D	1001		1SS355
	NSP	350 SCAN A ASSY	AWW1147	2	1001		100000
	NSP	350 SCAN B ASSY	AWW1147 AWW1148	MISC	CELLANEOUS		
	1401	000 OOAN D A001	AWWIITO	<u>o.</u>	1000		XTX1005
	NSP	150 X DRIVE ASSY	AWV2305	Ĺ	1002		LCYAR82J2520
	1101	250 X MAIN DRIVE ASSY	AWW1143	Ĺ	1004		XTX1003
С		250 X SUB DRIVE ASSY	AWW1144	Ĺ	1200		XTX1001
				F	1000		XTF1002
	NSP	150 Y DRIVE ASSY	AWV2306				
		250 Y MAIN DRIVE ASSY	AWW1145	F	1001,1003-1010		VTF1091
		250 Y SUB DRIVE ASSY	AWW1146	F	1012-1014,1100,1	101	VTF1091
				F	1202-1204		VTF1091
	NSP	150 DIGITAL ASSY	AWV2302	X	1100		XSS1010
_		250 DIGITAL ASSY	AWW1139				
		2SENSOR ASSY	AWW1140		1200		XEK1003
				⚠ M	1000		XXF1008
		1R07 DT ASSY (E) (507XD only)	AWE1311				
				<u>CAP</u>	<u>ACITORS</u>		
D		1MAIN ASSY (STEPUP)	AWV2318	С	1001-1003,1017,1	022	CKSRYB104K16
D				С	1004,1055		CEHVKW101M6R3
	NSP	1I/O ASSY (STEPUP)	AWV2319	С	1010		CEHVKW2R2M50
		2TANSHI ASSY	AWW1161	С	1013,1021,1040,10)41	CKSRYB103K50
		2SIDE ASSY	AWW1162	С	1015		CKSRYB102K50
		2PC ASSY	AWW1163				
_	NCD	1 50 41 010 51 11/1100 4007	ANA/V/00.4C	C	1018,1027,1029,10)50	CEHVKW470M16
	NSP	150 AUDIO FUKUGO ASSY 2AUDIO ASSY	AWV2346 AWW1131	С	1019		CEHVKW100M50
		2SP TERMINAL ASSY	AWW1131 AWW1132	С	1020		CEHVKW100M16
		2SIDE KEY ASSY	AWW1132 AWW1133	С	1025,1026,1030–1		CKSRYB104K16
		250 LED ASSY	AWW1135	С	1028,1038,1042,10)46	CCG1205
		2LED IR ASSY	AWW1136	С	1036		CKCDVD10EK10
		2225 1177661	7,000	C	1037,1039,1049,10)E0	CKSRYB105K10 CKSRYB104K16
Е	<u> </u>	1POWER SUPPLY UNIT	AXY1153	C	1043,1044)33	CCSRCJ3R0C50
				C	1045, 1044		CKSRYB103K50
				C	1051		CCG1205
	Mork	No Description	Dort No	Ü	1001		0001200
	<u>Mark</u>		Part No.	С	1054		BCG1050
	F	R07 DT ASSY (E) (507)	XD only)	С	1056,1057		CEHVKW470M16
	MISC	ELLANEOUS		С	1058-1062		CKSRYB104K16
	9		XNG1002	С	1102		CEHVKW331M6R3
	11		ANG2673				
	12-	15	PMZ20P100FNI				
	16-1		ABZ30P060FTC	[DEM	IUX BLOCK]		
				SEM	ICONDUCTOR:	<u>S</u>	
F					2000		STI5517DWAL
	[TUNI	ER BLOCK]		IC	2001		SN74LVU04APW
	_	CONDUCTORS		IC	2002		TC74VHC08FTS1
		1000	UPC3221GV	Q	2000		2SC4081
,				DD 5071/D			
_	26	_	, F	DP-507XD		_	

lark No. Description	Part No.	Mark No. Description	Part No.
D 2000	DA204U	0 4004 4000	0004004
D 2001	UDZS8R2(B)	Q 4001,4002	2SC4081
D 2002	HVU307	MISCELLANEOUS	
D 2005,2009	RB501V-40	F 4000,4100	VTF1091
VA 2002	AVR-M1608C120MT2AB	JA 4000	GP1FM513TZ
AICCELL ANEQUE		X 4000	XSS1006
MISCELLANEOUS L 2000	XTX1003	CN 4000	AKM1348
F 2000–2003	VTF1091	RESISTORS	
X 2000	BSS1112	R 4042,4045,4046	RS1/16S2000F
X 2001	ASS1172	Other Resistors	RS1/16S###J
RESISTORS		CAPACITORS	
R 2010,2018,2042	RAB4C103J	C 4000,4002	CCG1205
R 2070,2071	RAB4CQ220J	C 4001,4014,4032,4033	CKSRYB103K50
Other Resistors	RS1/16S###J	C 4003,4005,4017,4018	CKSRYF104Z16
A DA OLTO DO		C 4004	CEHVKW2R2M50
CAPACITORS	000001404150	C 4006	CKSRYB102K50
C 2000,2026,2030 C 2001	CCSRCH101J50 CKSRYB471K50	C 4007,4013	CCSRCH220J50
C 2002,2003,2005,2006	CKSRYF104Z16	C 4008,4009	CCSRCH121J50
C 2004	CKSRYF474Z16	C 4010,4011,4042	CCSRCH101J50
C 2007	CCSRCH471J50	C 4012,4022,4023,4029	CEHVKW470M16
0 0000 0047 0000 0004	OKODNO 100KEC	C 4019,4102–4104	CEHVKW100M16
C 2008,2017,2020,2021 C 2009	CKSRYB102K50 CCSRCH330J50	C 4021,4024,4043	CKSRYF104Z16
C 2011,2012	CCSRCH390J50	C 4021,4024,4043 C 4038	CKSRYB103K50
C 2013	CKSRYB105K10	C 4039	CEHVKW470M16
C 2014,2016	CCSRCH100D50	C 4040,4041	CKSRYB105K10
0 0045	OKODVE105710	C 4105–4107	CKSRYF104Z16
C 2015 C 2018,2019,2022–2025	CKSRYF105Z10 CKSRYF104Z16	C 4108–4113	CEH/KW100M16
C 2018,2019,2022–2025 C 2027,2029,2042,2046	CKSRYF104Z16 CKSRYF223Z50	C 4100-4113	CEHVKW100M16
C 2028,2035,2037–2041	CKSRYF104Z16		
C 2032–2034,2036	CEHVKW470M16	[CI BLOCK]	
	01/05/45:5:5:5	SEMICONDUCTORS	
C 2043–2045,2047,2048	CKSRYF104Z16	IC 5000	ST890CDR
		IC 5001	CIMAXSP2L
MEMORY BLOCK]		IC 5002 IC 5003,5004	TC74LCX245FTS1 TC74LCX373FT
EMICONDUCTORS		Q 5000	2SC4081
IC 3000,3003	K4S281632I-UC75	-	- ·
IC 3002	XGC1003	Q 5001	DTA143EUA
UCOFI I ANEOUS		Q 5002	DTC124EUA
IISCELLANEOUS	VTV1000	MISCELLANEOUS	
L 3003 L 3005	XTX1003 XTX1001	CN 5000	XKP1003
_ 0000		3.1 5550	7.1.1.1000
ESISTORS		RESISTORS	
R 3004–3014	RAB4CQ470J	R 5014,5019,5022,5024	RAB4CQ470J
Other Resistors	RS1/16S###J	R 5030,5032,5036–5038	RAB4CQ470J
APACITORS		R 5045–5050 Other Resistors	RAB4CQ470J RS1/16S###J
C 3000,3003,3007,3008	CKSRYF104Z16	Other resistors	ι ιο τ/ τοοπππο
	CKSRYF223Z50	CAPACITORS	
C 3001,3002,3004,3014	CEHVKW470M16	C 5001	CKSRYB105K10
C 3001,3002,3004,3014 C 3010		C 5003,5004,5006	CKSRYF104Z16
C 3010 C 3012,3017,3020–3022	CKSRYF104Z16		CEHVKW470M16
C 3010	CKSRYF104Z16 CKSRYF223Z50	C 5005,5100	
C 3010 C 3012,3017,3020–3022 C 3015,3018,3019,3023	CKSRYF223Z50	C 5005,5100 C 5008-5013	CKSRYF104Z16
C 3010 C 3012,3017,3020–3022		,	
C 3010 C 3012,3017,3020–3022 C 3015,3018,3019,3023 C 3024	CKSRYF223Z50	C 5008-5013 [POWER BLOCK]	
C 3010 C 3012,3017,3020–3022 C 3015,3018,3019,3023 C 3024	CKSRYF223Z50	C 5008-5013 [POWER BLOCK] SEMICONDUCTORS	CKSRYF104Z16
C 3010 C 3012,3017,3020–3022 C 3015,3018,3019,3023 C 3024 AV BLOCK]	CKSRYF223Z50 CKSRYF223Z50	C 5008-5013 [POWER BLOCK] SEMICONDUCTORS IC 6001	CKSRYF104Z16 M5291FP
C 3010 C 3012,3017,3020–3022 C 3015,3018,3019,3023 C 3024 AV BLOCK] EMICONDUCTORS	CKSRYF223Z50 CKSRYF223Z50 CS4334-KS	C 5008-5013 [POWER BLOCK] SEMICONDUCTORS IC 6001 IC 6002	CKSRYF104Z16 M5291FP BA05FP
C 3010 C 3012,3017,3020–3022 C 3015,3018,3019,3023 C 3024 AV BLOCK] SEMICONDUCTORS IC 4000 IC 4001	CKSRYF223Z50 CKSRYF223Z50 CS4334-KS SN74LVU04APW	C 5008-5013 [POWER BLOCK] SEMICONDUCTORS IC 6001 IC 6002 IC 6003	CKSRYF104Z16 M5291FP BA05FP FPF2003
C 3010 C 3012,3017,3020–3022 C 3015,3018,3019,3023 C 3024 AV BLOCK] BEMICONDUCTORS IC 4000	CKSRYF223Z50 CKSRYF223Z50 CS4334-KS	C 5008-5013 [POWER BLOCK] SEMICONDUCTORS IC 6001 IC 6002 IC 6003	CKSRYF104Z16 M5291FP BA05FP
C 3010 C 3012,3017,3020–3022 C 3015,3018,3019,3023 C 3024 AV BLOCK] SEMICONDUCTORS IC 4000 IC 4001 IC 4002	CKSRYF223Z50 CKSRYF223Z50 CS4334-KS SN74LVU04APW RC4558D	C 5008-5013 [POWER BLOCK] SEMICONDUCTORS IC 6001 IC 6002 IC 6003 IC 6200	CKSRYF104Z16 M5291FP BA05FP FPF2003 TC74LCX245FTS1
C 3010 C 3012,3017,3020–3022 C 3015,3018,3019,3023 C 3024 AV BLOCK] SEMICONDUCTORS IC 4000 IC 4001 IC 4002 IC 4003	CKSRYF223Z50 CKSRYF223Z50 CS4334-KS SN74LVU04APW RC4558D CS8406CZZ PCM1803DB	C 5008-5013 [POWER BLOCK] SEMICONDUCTORS IC 6001 IC 6002 IC 6003 IC 6200	CKSRYF104Z16 M5291FP BA05FP FPF2003 TC74LCX245FTS1

<u>ivi</u> ai K i	No. Description	Part No.	Mark No. Description	Part No.
	6001,6009,6011,6200	DTC124EUA	D 3151,3152,3154,3155	DAN202U
	6003,6005,6010	DTA143EUA	D 3158,3159,3161–3163	1SS355
	6006		D 3136,3139,3101=3103	133333
		2SB1188	MICCELLANICOLO	
	6008	TPC8209	MISCELLANEOUS	
Q	6100	2SC4081	X 3151	CSS1616
1	0001	DOVOOT! 00	CN 3151	AKM1276
	6001	RSX201L-30	CN 3152	CKS4828
	6003,6100–6102	1SS355		
D	6103	UDZS30(B)	<u>RESISTORS</u>	
			R 3155,3160,3170,3176	RAB4C101J
MISC	ELLANEOUS		R 3174	RAB4C103J
	6000	LCYAR82J2520	Other Resistors	RS1/16SS###J
	6001,6100,6101	XTH1001		
	6000	VTF1091	CAPACITORS	
CN	6000	AKM1298	C 3151	CEHVKW470M6R
CN	6003	AKM1349	C 3152,3153,3155–3158	CKSSYB104K10
			C 3152,3153,3155–3156 C 3159,3171,3172,3182	CKSRYB105K6R3
RESIS	STORS .		C 3162,3163,3165,3166	CKSSYB104K10
	6012–6014	RAB4C2R2J		
	6031	RAB4C221J	C 3164	CCSSCH101J50
	6204,6205	RAB4CQ101J	0 2107	OKOOND400K40
	er Resistors	RS1/16S###J	C 3167	CKSSYB103K16
Oute	U 1 163131U13	1101/100###J	C 3168,3170,3181	CKSSYB104K10
CADA	ACITORS			
	ACITORS	OFI 11 // C. / C. / C. / C. / C. / C. / C.		
	6000,6026,6104–6106	CEHVKW331M6R3	[PANEL FLASH BLOCK]	
	6001,6011,6013–6015	CEHVKW470M16	<u>SEMICONDUCTORS</u>	
	6002,6035	CKSRYF223Z50	IC 3302,3305	PST3628UR
	6003,6005,6006,6012	CKSRYF104Z16	IC 3303	SN74AHC08PW
С	6004	CEHVKW100M50	IC 3304	PST3610UR
			Q 3301	RN1901
	6008,6016	CKSRYF474Z16	Q 3302	HN1C01FU
	6010	CCSRCH331J50		
С	6017,6028,6036,6042	CEHVKW101M6R3	MISCELLANEOUS	
	6018,6020,6021,6025	CKSRYF104Z16	X 3302	ASS1188
С	6019,6023,6100	CEHVKW470M16	CN 3301	CKS4835
			OIN JOUT	UN34033
	6022	CKSRYB103K50	RESISTORS	
	6027	CCSRCH101J50		DAD40404 !
	6029,6030,6033,6038	CKSRYF104Z16	R 3307,3308	RAB4C101J
	6031	CEHVKW2R2M50	Other Resistors	RS1/16SS###J
С	6044	CEHVKW101M6R3	0.4.04.04.00.00	
			CAPACITORS	
С	6102	CCG1191	C 3301–3303,3306,3308	CKSSYB104K10
С	6200,6300	CKSRYF104Z16	C 3304,3307,3309	CKSSYB472K16
			C 3305,3310	CKSSYB102K50
			C 3311	CCSRCH470J50
			C 3315,3316	CKSSYB104K10
5	50 DIGITAL ASSY			
	TAL IF BLOCK		C 3317	CCSRCH471J50
-	<u>-</u>			
•	ELLANEOUS	0004455		
	3001	CCG1162	[SQ ASIC BLOCK]	
	3001	AKM1353	SEMICONDUCTORS	
CN	3002	AKM1235	IC 3401	PEG239A
			• .	5=55.1
	<u>STORS</u>		MISCELLANEOUS	
R	3007,3010-3016	RAB4C470J	· · · · · · · · · · · · · · · · · · ·	QTL1013
R	3020–3022	RAB4C103J		CCG1162
Othe	er Resistors	RS1/16SS###J	F 3401,3402	0001102
			DECICTORS	
			RESISTORS	
[MOD	ULE UCOM BLOCK]		R 3402,3412	RAB4C101J
	CONDUCTORS		R 3405–3407,3409,3410	RAB4C220J
	3152,3153	SN74AHC541PW	R 3416	RAB4C220J
	3155	SN74AHC08PW	R 3425	RS1/16SS5601F
10		BR24L04FJ-W	Other Resistors	RS1/16SS###J
		M62334FP		
IC			<u>CAPACITORS</u>	
IC IC	J159	TC7W126FU	C 3401,3402,3419,3425	CEHVKW101M6R
IC			C 3403–3413,3417,3418	CKSSYB104K10
IC IC IC		TO74\/ \104004===0:	C 3403-3417.3410	
IC IC IC	3160,3161	TC74VHC123AFTS1		
IC IC IC		TC74VHC123AFTS1 2SJ461A	C 3420–3424,3426–3432	CKSSYB104K10
IC IC IC	3160,3161		C 3420–3424,3426–3432	

Mark No.	5 December 1	6	Maylchia Passyintian	8 Dort No	
ADDRESS CN BLOCK SEMICONDUCTORS SIN16SSMMJ SEMICONDUCTORS SIN16SSMMJ SEMICONDUCTORS SIN16SSMMJ SEMICONDUCTORS SIN16SSMMJ SEMICONDUCTORS CAPACITORS SIN16SSMMJ SIN16SSMMJ SEMICONDUCTORS CO02,1003 CKSRY98104K16 CO03,1003 CKSRY98104K16 CKSRY98104K16 CO03,1003 CKSRY98104K16 CKSRY98104K16 CO03,1003 CKSRY98104K10 CKSRY98106K16 CO03,1003 CKSRY98106K16 CKSRY98106K16 CO03,1003 CKSRY98106K16 CKSRY98106K16 CO03,1003 CKSRY98106K16 CKSRY98106K16 CO03,1003 CKSRY98106K16 CKSRY98106K16 CKSRY98106K16 CO03,1003 CKSRY98106K16 CKSRY98106K16 CKSRY98106K16 CKSRY98106K16 CO03,1003 CKSRY98106K16 CKSRY	<u> </u>	Part No.	Mark No. Description	Part No.	
ADDRESS CN BLOCK EMICONDUCTORS	C 3445–3448	CKSSYB104K10			
ADDRESS CN BLOCK CAPACITORS CAPACITOR			VR 1001	CCP1390	
EMICONDUCTORS			Other Resistors	RS1/16S###J	
0 9501,350/2 DAN202U C 1001 CEHAT/70M16 DAN202U C 1002,1003 CKSRYB104K16 C 1004 CCSRCH331J50 C 1006 CCSRCH331J50 C 1006 CCSRCH331J50 C 1006 CCSRCH331J50 C 1006 CCSRCH830J50 C 1006 CCSRCH80J50 C 1006 CCSRCH80J50 C 1006 C 1007 C	ADDRESS CN BLOCK]				
0 3901,3502 PAN 901	EMICONDUCTORS		<u>CAPACITORS</u>		
D 2501,3502		BN1901	C 1001	CEHAT470M16	
C 1004 CCSRCH831J80 CCSRCH880J50 CCSRCH80J50 CCSRCH80J5	,		C 1002.1003	CKSRYB104K16	
	5 0001,0002	27 11 12 02 0	- ,		
CM 3901-39043006	ISCELL ANEOLIS				
Sesitions		A L/A 4 4 0 4 0		0001101100000	
SESISTORS	,				
SESTIONS	CN 3505	VKN1310	IEUX BESONANCE BI COKI		
Fig. 19.04.00					
R				T11000=T0	
Rabic Rabi	•		· · · · · · · · · · · · · · · · · · ·		
C 1107	R 3521,3522,3525	RAB4C101J			
O 1101 28C2412K	R 3524	RAB4C222J			
DIGITAL DD CON BLOCK	Other Resistors	RS1/16SS###J		PS2701A-1(L)	
EMICONDUCTORS D 1104,1105 25C-0.081 100,25SR(B)			Q 1101	2SC2412K	
EMICONDUCTORS D 1104,1105 25C-0.081 100,25SR(B)					
EMICONDUCTORS D 1104,1105 25C-0.081 100,25SR(B)	DIGITAL DD CON BLOCKI		Q 1102,1103	QSZ2	
D 1101,1103 UDZSSRR(B) C RH01 UDZS1S(B)				2SC4081	
		DA00B001155			
D 1104 UDZS15(B)	IC 3601	BA80BC0WFP		` '	
SCELLANEOUS					
Sesistors	<u>ISCELLANEOUS</u>		B 1104	0B2010(B)	
ESISTORS R 3611 RAB4C101J RS1/16SS##J Dither Resistors RS1/16SS##J RS1/16SSPB0S C 3609 CKSSYB104K10 CKSSYB106K16 CKSSYB106K16 CKSSYB103K16 RESISTORS C 3611 CKSSYB103K16 RESISTORS R 1109,1110 RS1/16S1002F R 11113 RS1/16S1002F R 11114 RS1/16S1002F R 11114 RS1/16S3002F R 11115 CKN12S9 REMICONDUCTORS C 3651 RS1/16SS##J RS1/16SS##		AXY1137	MISCELLANEOUS		
ESISTORS R 3611				ATI 14047	
R 3611	ESISTORS				
Other Resistors RS1/16SS###J 1101 ANH1653 APACITORS 1102A EH1092 C 3609 CKSSYB104K10 1103 BMZ30P080FTC C 3611 CKSCYB105K16 1103 BMZ30P080FTC C 3613 CKSYB103K16 R 1107,1108 RS3LMF100J R 1103,1110 RS1/16S4702F R 1109,1110 RS1/16S402F R 1113 RS1/16S302F RS1/16S302F R 11115 ACN1259 EMICONDUCTORS R 1119 ACN1259 ACN1259 EMICONDUCTORS BR24L02FJ-W R 11121 RS1/16S302F IC 3651 MM1522XU R 1119 ACN1258 IC 3652 BR24L02FJ-W R 1121 RS1/16S4701F ISCELLANEOUS CAPACITORS SCN 3651 AKM1276 C 1102,1115 CKSRYB104K16 APACITORS C 3651,3653 CKSRYB105K6R3 C 1104,1117 CKSFYB105K25 A C 3652,3654 CKSSYB103K16 C 1104,1117 CKSYB105K25 C 3652,3654 CKSSYB104K10 C 1107,1116 ACR1126 C 3652,36		DAD4C101 I			
APACITORS C 3609					
APACITORS	Other Resistors	H31/1035###J	1101	ANH1653	
C 3609 CKSSYB104K10 1103 BMZ30P080FTC C 3611 CKSQYB105K16 C 3612 ACH1394 RESISTORS CKSSYB103K16 R 1107,1108 RS3LMF100J R 1109,1110 RS1/1084702F R 1109,1110 RS1/1084702F R 1113 RS1/16S1002F R 11113 RS1/16S1002F SENSOR ASSY EMICONDUCTORS IC 3651 MM152ZXU R 11115 ACN1258 IC 3652 BR24L02FJ-W R 1121 RS1/16S4701F Q 3651 HN1B04FU Other Resistors RS1/16S4#LJ ISCELLANEOUS CN 3651 AKM1276 C 1101,1114 CEHAT470M25 AJI Resistors RS1/16SS##J C 1102,1115 CKSPYF104Z50 AJI Resistors RS1/16SS##J C 1103 CKSPYF104Z50 C 3651,3653 CKSRYB105K6R3 C 1107,1116 ACG1126 C 3652,3654 CKSSYB103K16 C 1107,1116 ACG1126 C 3653,3653 CKSRYB105K6R3 C 1107,1116 ACG1126 C 3653,3653 CKSRYB105K6R3 C 1107,1116 ACG1126 C 3653,3654 CKSSYB103K16 C 1107,1116 ACG1126 C 3656,3657 CKSSYB104K10 C 1121-1124 ACE1178 SO X MAIN DRIVE ASSY SEMICONDUCTORS IC 1002 TC74ACT541FT IC 1209 MM1556AF IC 1001 TC74ACT541FT IC 1209 MM1556AF IC 1001 TC74ACT541FT IC 1209 MM1556AF IC 1001-1004 1S355 Q 1202,1204,1206,1207 H5N2512LS ISCELLANEOUS K 1004,1007 AKX1061 Q 1210,1211 FKP280AS CN 1001 VKN1310 Q 1215,1221 FKP300AS CN 1001 VKN1310 Q 1215,1221 FKP300AS ESISTORS ESISTORS	ADAOITODO		1102A	EH1092	
C 3611 CKSQVB105K16 C 3612 ACH1394 RESISTORS C 3613 CKSSYB103K16 R 1107,1108 RS3LMF100J R 1109,1110 RS1/1054702F R 1113 RS1/16S1002F SENSOR ASSY EMICONDUCTORS IC 3651 MM1522XU R 1119 ACN1259 EMICONDUCTORS IC 3652 BR24L02FJ-W R 1121 RS1/16S4701F R 3652 BR24L02FJ-W R 1121 RS1/16S4701F RS1/16					
C 3612			1103	BMZ30P080FTC	
C 3613 CKSSYB103K16 R 1107,1108 R 1109,1110 RS1/054702F R 1113 RS1/16S1002F R 1113 RS1/16S3032F R 1114 RS1/16S3302F R 1115 ACN1259 EMICONDUCTORS IC 3651 MM1522XU R 1119 ACN1258 IC 3652 BR24L02FJ-W R 1121 RS1/16S4701F RS1/16S4701F RS1/16S4701F RS1/16S4701F RS1/16S4701F RS1/16S4701F RS1/16S4701F RS1/16S4#J CAPACITORS CN 3651 AKM1276 C 1101,1114 CEHAT470M25 CKSRYF104Z50 CKSRYF104Z50 C 1102,1115 CKSRYF104Z50 C 1103 CKSRYF104X16 C 3652,3654 CKSYB105K6B3 C 1107,1116 ACG1126 C 3652,3654 CKSSYB104K10 C 1121-1124 ACE1178 FOX MAIN DRIVE ASSY SEMICONDUCTORS IC 1201,1204,1206,1208 FN 17002 FOX LOGIC BLOCK] EMICONDUCTORS IC 1201,1204,1206,1208 FN 17002 FOX LOGIC BLOCK] EMICONDUCTORS IC 1201,1204,1206,1208 FN 17002 FOX LOGIC BLOCK] FM 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		CKSQYB105K16			
C 3613 CKSSYB103K16 R 1107,1108 RSJMF100J RS1/10S4702F R 1109,1110 RS1/10S4702F R 1113 RSJ/16S1002F SENSOR ASSY EMICONDUCTORS C 3651 MM1522XU R 1115 ACN1258 RS1/16S302F ACN1259 RS4L02FJ-W R 1115 RS1/16S4701F RS1/16S4701F RS5/16S4701F RS5/16S4701F RS5/16S4701F RS1/16S4##J RS5/16S4701F RS1/16S##J RS5/16S4701F RS1/16S##J RS5/16S4701F RS1/16S##J RS5/16S4701F RS1/16S##J RS5/16S4701F RS1/16S##J RS5/16S4701F RS1/16S##J RS5/16S5/1 RS1/16S##J C 1101,1114 CEHAT470M25 C RSFYF104Z50 C 1103,1115 CKSRYF104Z50 C 1103 CKSRYF104Z50 C 1103 CKSRYF104Z50 C 1103 CKSRYF104Z50 C 1103,1117 CKSRYB105K68 C 1107,1116 ACG1126 C 3652,3653 CKSRYB105K683 C 1107,1116 ACG1126 C 3652,3654 CKSYB103K16 C 1107,1116 ACG1126 C 3652,3654 CKSSYB103K16 C 1113 ACH1450 C 3656,3657 CKSSYB104K10 C 1121-1124 ACE1178 50 X MAIN DRIVE ASSY EMICONDUCTORS IC 1201,1204,1206,1208 TND307TD PS9117P IC 1001 TC74ACT541FT IC 1209 MM1565AF IC 1202,1205 PS9117P IC 1001 TC74VHC00FTS1 Q 1201,1208 2 SC2412K D 1001-1004 ISS355 Q 1202,1204,1205,1207 H5N2512LS IISCELLANEOUS K 1004,1007 AKX1061 Q 1201,1211 FKP280AS CN 1001 VKN1310 Q 1216,1221 FKP300AS CN 1001 VKN1310 Q 1216,1221 FKP300AS CN 1001 VKN1310 Q 1216 DTC143EK EISISTORS	C 3612	ACH1394	RESISTORS		
R 1109, 1110	C 3613	CKSSYB103K16		BS3LMF100 L	
R 1113					
SENSOR ASSY R 1114 RS1/16S3302F EMICONDUCTORS IC 3651 MM1522XU R 1119 ACN1258 IC 3651 MM1522XU R 1121 RS1/16S4701F IC 3652 BR24L02FJ-W R 1121 RS1/16S4701F Q 3651 HN1B04FU Other Resistors RS1/16S##J IISCELLANEOUS C 1100,1114 CEHAT470M25 CN 3651 AKM1276 C 1100,1115 CKSRYP104Z50 All Resistors RS1/16SS##J C 1103 CKSRYP104X16 C 1103 CKSRYB104X16 C 1103 CKSRYB104X16 C 1107,1116 ACG1126 ACG1126 ACG1126 C 3652,3654 CKSSYB103K16 C 1107,1116 ACH1450 ACE1178 ACH1450 C 1121-1124 ACE1178 T ACE1178 ACH1450 C 1121-1124 ACE1178 T ACE1178 T ACG1205 PS9117P ACE178 C					
SENSOR ASSY					
C 3651	SENSOR ASSV				
C 3651			п нь	MONIZOS	
Section Sect			D 1110	ACNI1050	
No. Color					
INTEGRATED INT	IC 3652	BR24L02FJ-W			
CN 3651	Q 3651	HN1B04FU	Other Resistors	RS1/16S###J	
CN 3651					
CN 3651	ISCELLANEOUS		<u>CAPACITORS</u>		
All Resistors RS1/16SS###J C 1102,1115 CKSRYF104Z50 CKSRYB104K16 CKSRYB105K6R3 C 3651,3653 CKSRYB105K6R3 C 3652,3654 CKSSYB103K16 CKSSYB104K10 CKSSYB104K10 C 11121—1124 ACE1178 C 3656,3657 CKSSYB104K10 C 11121—1124 ACE1178 SEMICONDUCTORS IC 1201,1204,1206,1208 IC 1202,1205 PS9117P IC 1002 TC74ACT541FT IC 1209 MM1565AF IC 1202,1205 PS9117P IC 1002 TC74VHC00FTS1 IC 1201,1208 CSC2412K D 1001—1004 RS355 Q 1202,1204,1205,1207 H5N2512LS BISCELLANEOUS K 1004,1007 AKX1061 Q 1210,1211 FKP280AS C 1102,1117 CKSRYF104Z50 CKSRYF104Z50 CKSRYF104Z50 CKSRYF104Z50 CKSRYB104K16 C 1103 CKSRYB104K16 C 1103 ACH1450 ACE1178 CKSRYB105K25 ACG1126 CKSYB104K16 C 1113 ACH1450 ACE1178 TND307TD PS9117P IC 1209 MM1565AF IC 1209 IC 1201,1208 CSC2412K D 1001—1004 RS355 Q 1202,1204,1205,1207 H5N2512LS BISCELLANEOUS K 1004,1007 AKX1061 Q 1210,1211 FKP280AS CN 1001 VKN1310 Q 1216 DTC143EK DTC123TKA	-	ΔΚM1976		CEHAT470M25	
C 1103					
C 1104,1117 CKSYB105K25 C 3651,3653 CKSRYB105K6R3 C 1107,1116 ACG1126 C 3652,3654 CKSSYB103K16 C 1113 ACH1450 C 3656,3657 CKSSYB104K10 C 1121-1124 ACE1178 SOX MAIN DRIVE ASSY SEMICONDUCTORS IC 1201,1204,1206,1208 TND307TD IC 1201,1204,1206,1208 TND307TD IC 1201,1204,1206,1208 PS9117P IC 1002 TC74ACT541FT IC 1209 MM1565AF IC 1002 TC74VHC00FTS1 Q 1201,1208 2SC2412K D 1001-1004 1SS355 Q 1202,1204,1205,1207 H5N2512LS ISCELLANEOUS Q 1210,1211 FKP280AS K 1004,1007 AKX1061 Q 1215,1221 FKP300AS C 1001 CKSYB105K25 C 1216 DTC143EK ESISTORS DTC123TKA	All DESISIOIS	U###C601 /1 6U	•		
C 3651,3653	A DA OLTO DO				
C 3651,3653 C 3652,3654 C 3656,3657 C 3666,3657 C 3666,367 C 3666,3657 C 3666,					
C 3656,3657 CKSSYB104K10 C 1113 ACH1450 C 1121-1124 ACE1178 50 X MAIN DRIVE ASSY SEMICONDUCTORS IC 1201,1204,1206,1208 TND307TD IC 1001 TC74ACT541FT IC 1209 MM1565AF IC 1002 TC74VHC00FTS1 Q 1201,1208 2SC2412K D 1001-1004 1SS355 Q 1202,1204,1205,1207 H5N2512LS IISCELLANEOUS K 1004,1007 AKX1061 Q 1210,1211 FKP280AS CN 1001 VKN1310 Q 1215,1221 FKP300AS CN 1001 VKN1310 Q 1216 DTC143EK ESISTORS			0 1107,1110	AUGITZU	
C 3656,3657 CKSSYB104K10 C 1121-1124 ACE1178	C 3652,3654	CKSSYB103K16	C 1112	ACU1450	
SOX MAIN DRIVE ASSY SEMICONDUCTORS IC 1201,1204,1206,1208 TND307TD	C 3656,3657	CKSSYB104K10			
SEMICONDUCTORS IC 1201,1204,1206,1208 TND307TD IC 1202,1205 PS9117P IC 1001 TC74ACT541FT IC 1209 MM1565AF IC 1002 TC74VHC00FTS1 Q 1201,1208 2SC2412K D 1001–1004 1SS355 Q 1202,1204,1205,1207 H5N2512LS ISSCELLANEOUS Q 1209,1212–1214 QSZ2 K 1004,1007 AKX1061 Q 1210,1211 FKP280AS CN 1001 VKN1310 Q 1215,1221 FKP300AS CN 1001 VKN1310 Q 1216 DTC143EK DTC123TKA			G 1121-1124	AUEII/8	
SEMICONDUCTORS IC 1201,1204,1206,1208 TND307TD IC 1202,1205 PS9117P IC 1001 TC74ACT541FT IC 1209 MM1565AF IC 1002 TC74VHC00FTS1 Q 1201,1208 2SC2412K D 1001-1004 1SS355 Q 1202,1204,1205,1207 H5N2512LS SCELLANEOUS					
SEMICONDUCTORS IC 1201,1204,1206,1208 TND307TD IC 1202,1205 PS9117P IC 1001 TC74ACT541FT IC 1209 MM1565AF IC 1002 TC74VHC00FTS1 Q 1201,1208 2SC2412K D 1001-1004 1SS355 Q 1202,1204,1205,1207 H5N2512LS ISSCELLANEOUS Q 1209,1212-1214 QSZ2 K 1004,1007 AKX1061 Q 1210,1211 FKP280AS CN 1001 VKN1310 Q 1215,1221 FKP300AS ESISTORS Q 1217 DTC123TKA			FROM SUID DU SOUT		
C 1201,1204,1206,1208 TND307TD	50 X MAIN DRIVE A	SSY			
C 1202,1205 PS9117P C 1001 TC74ACT541FT IC 1209 MM1565AF C 1002 TC74VHC00FTS1 Q 1201,1208 2SC2412K D 1001–1004 1SS355 Q 1202,1204,1205,1207 H5N2512LS ISCELLANEOUS Q 1209,1212–1214 QSZ2 K 1004,1007 AKX1061 Q 1210,1211 FKP280AS CN 1001 VKN1310 Q 1215,1221 FKP300AS Q 1216 DTC143EK ESISTORS Q 1217 DTC123TKA					
C 1202,1205 PS9117P C 1001 TC74ACT541FT IC 1209 MM1565AF C 1002 TC74VHC00FTS1 Q 1201,1208 2SC2412K D 1001–1004 1SS355 Q 1202,1204,1205,1207 H5N2512LS IISCELLANEOUS Q 1209,1212–1214 QSZ2 K 1004,1007 AKX1061 Q 1210,1211 FKP280AS CN 1001 VKN1310 Q 1215,1221 FKP300AS C 1208,1205 FKP300AS C 1209,1212–1214 QSZ2 C 1209,1212			IC 1201,1204,1206,1208	TND307TD	
IC 1001 TC74ACT541FT IC 1209 MM1565AF IC 1002 TC74VHC00FTS1 Q 1201,1208 2SC2412K D 1001–1004 1SS355 Q 1202,1204,1205,1207 H5N2512LS ISCELLANEOUS			IC 1202,1205	PS9117P	
C 1002 TC74VHC00FTS1 Q 1201,1208 2SC2412K D 1001–1004 1SS355 Q 1202,1204,1205,1207 H5N2512LS IISCELLANEOUS	IC 1001	TC74ACT541FT		MM1565AF	
D 1001–1004 1SS355 Q 1202,1204,1205,1207 H5N2512LS IISCELLANEOUS K 1004,1007 AKX1061 Q 1210,1211 FKP280AS CN 1001 VKN1310 Q 1215,1221 FKP300AS Q 1216 DTC143EK ESISTORS	IC 1002	TC74VHC00FTS1			
ISCELLANEOUS					
K 1004,1007 AKX1061 Q 1210,1211 FKP280AS CN 1001 VKN1310 Q 1215,1221 FKP300AS Q 1216 DTC143EK ESISTORS Q 1217 DTC123TKA					
K 1004,1007 AKX1061 Q 1210,1211 FKP280AS CN 1001 VKN1310 Q 1215,1221 FKP300AS Q 1216 DTC143EK ESISTORS Q 1217 DTC123TKA	IISCELLANEOUS		Q 1209.1212-1214	QSZ2	
CN 1001 VKN1310 Q 1215,1221 FKP300AS Q 1216 DTC143EK ESISTORS Q 1217 DTC123TKA		ΔK¥1061			
Q 1216 DTC143EK ESISTORS Q 1217 DTC123TKA					
ESISTORS Q 1217 DTC123TKA	ON TOOT	VINISIU			
2001010	FOICTORS				
R 1001,1006 RAB4C470J			Q 1217	D101231KA	
	R 1001,1006	RAB4C470J			
					29
DDP-507XD 5 ■ 6 ■ 7 ■ 8			PDP-507XD		23

Mark No.	Description	Part No.	Mark No. Description	Part No.
n 1990	<u> </u>	R5009ANJ	D 1313,1318,1404,1406	1SS355
Q 1220 D 1201,1	205	UDZS5R6(B)	D 1315,1316,1404,1406	UDZS4R7(B)
,	203,1206,1211	CRH01	D 1315,1316	UDZ34N7(D)
	203,1206,1211		MICOELLANEOUS	
D 1204		D1FL40	<u>MISCELLANEOUS</u>	
D 1208		1SS302	T 1302	ATK1160
			T 1401	ATK1159
D 1209		UDZS16(B)		
D 1210		1SS355	RESISTORS	
D 1212		CRH01	R 1312–1314,1317	RS1/10S224J
D 1213		UDZS8R2(B)	R 1328	RAB4C472J
			VR 1301	CCP1392
MISCELL	ANEOUS		Other Resistors	RS1/16S###J
	203,1204	BTH1134	Other Resistors	NO 1/100###J
L 1202	200,1201	ATH1186	CARACITORS	
F 1227		CTF1449	<u>CAPACITORS</u>	
K 1202		AKX1061	C 1301,1302,1405,1406	CKSRYB104K
	1004 1010 1017		C 1308,1401,1407	CEHAT101M2
KIN 1201-	1204,1210–1217	ANK1841	C 1310,1313,1402	CKSYB105K25
ON 4004		1481.51	C 1311	ACH1451
CN 1201		14PL-FJ	C 1312,1403	CKSRYB103K
CN 1204		B8B-EH		
1202		PMB30P080FNI	C 1314	CEHAT100M50
			C 1404	ACG1105
RESISTOR	<u>≀S</u>		5 1101	7.001100
	210,1213,1215	RS1/10S100J		
R 1211	·, -,:=:=	ACN1254		
	228,1230,1231	RS1/10S0R0J	FO V OUD DDWE 4	CCV
	224,1233,1256	RS1/10S0R03	50 X SUB DRIVE A	55 Y
R 1237	224,1200,1200	RS1/10S0R0J	SEMICONDUCTORS	
H 1237		N3 1/1030N03	Q 1501	FKP280AS
D 1000		ACN10E0	Q 1502	FKP300AS
R 1239		ACN1258	Q 1504,1505	H5N2512LS
R 1245	0.40	ACN1257	Q 1507	QSZ2
R 1247,1		RS3LMF470J		
Other Resi	stors	RS1/16S###J	D 1501	CRH01
CAPACITO			MICCELLANEOUS	
C 1201,1	212	ACG1126	<u>MISCELLANEOUS</u>	
C 1202,1	209,1232,1236	CKSRYB104K16	K 1501	AKX1061
C 1203,1	208,1215,1229	CKSRYF104Z50	KN 1501-1505	ANK1841
C 1205,1	206,1217,1218	ACG1139	CN 1501	14R-FJ
C 1207,1	214,1220,1226	CEHAT470M25	1502	PMB30P080FN
C 1210,1	211,1216,1241	CKSYB105K25	<u>RESISTORS</u>	
C 1213		CCSRCH221J50	R 1502,1503	RS1/10S2R2J
C 1222,1	223	ACH1423	R 1507,1508	RS1/10S100J
		ACE1178	Other Resistors	RS1/16S###J
() 1994 1		CEHAT2R2M2E	Caron Hodiotoro	. ιο ι/ ιοοππ#ο
C 1224,1		OLI II II EI IEIVIEL		
C 1224,1 C 1228			CADACITODE	
C 1228		ACH1449	<u>CAPACITORS</u>	
C 1228C 1230	227	ACH1449	C 1501	ACE1178
C 1228 C 1230 C 1231,1	237	CEHAT101M10	C 1501 C 1503,1504	ACG1139
C 1228 C 1230 C 1231,1 C 1233	237	CEHAT101M10 CKSRYB473K16	C 1501 C 1503,1504 C 1505	ACG1139 ACH1423
C 1228 C 1230 C 1231,1 C 1233 C 1234	237	CEHAT101M10 CKSRYB473K16 CEHAT470M16	C 1501 C 1503,1504	ACG1139 ACH1423
C 1228 C 1230 C 1231,1 C 1233	237	CEHAT101M10 CKSRYB473K16	C 1501 C 1503,1504 C 1505	ACG1139
C 1228 C 1230 C 1231,7 C 1233 C 1234 C 1235	237	CEHAT101M10 CKSRYB473K16 CEHAT470M16 CKSRYB105K6R3	C 1501 C 1503,1504 C 1505 C 1506	ACG1139 ACH1423
C 1228 C 1230 C 1231,1 C 1233 C 1234	237	CEHAT101M10 CKSRYB473K16 CEHAT470M16	C 1501 C 1503,1504 C 1505 C 1506	ACG1139 ACH1423
C 1228 C 1230 C 1231,7 C 1233 C 1234 C 1235	237	CEHAT101M10 CKSRYB473K16 CEHAT470M16 CKSRYB105K6R3	C 1501 C 1503,1504 C 1505 C 1506	ACG1139 ACH1423
C 1228 C 1230 C 1231,7 C 1233 C 1234 C 1235	237	CEHAT101M10 CKSRYB473K16 CEHAT470M16 CKSRYB105K6R3	C 1501 C 1503,1504 C 1505 C 1506 [DRIVE HEATSINK M] MISCELLANEOUS	ACG1139 ACH1423 CKSYB105K25
C 1228 C 1230 C 1231,7 C 1233 C 1234 C 1235 C 1244	237 ON BLOCK]	CEHAT101M10 CKSRYB473K16 CEHAT470M16 CKSRYB105K6R3	C 1501 C 1503,1504 C 1505 C 1506 [DRIVE HEATSINK M] MISCELLANEOUS 3001,3001	ACG1139 ACH1423 CKSYB105K28 ANH1656
C 1228 C 1230 C 1231,7 C 1233 C 1234 C 1235 C 1244 [50X D-D C	ON BLOCK]	CEHAT101M10 CKSRYB473K16 CEHAT470M16 CKSRYB105K6R3	C 1501 C 1503,1504 C 1505 C 1506 [DRIVE HEATSINK M] MISCELLANEOUS	ACG1139 ACH1423 CKSYB105K25
C 1228 C 1230 C 1231,7 C 1233 C 1234 C 1235 C 1244 [50X D-D C SEMICON		CEHAT101M10 CKSRYB473K16 CEHAT470M16 CKSRYB105K6R3 CKSRYB104K25	C 1501 C 1503,1504 C 1505 C 1506 [DRIVE HEATSINK M] MISCELLANEOUS 3001,3001 3101,3101	ACG1139 ACH1423 CKSYB105K25 ANH1656
C 1228 C 1230 C 1231,7 C 1233 C 1234 C 1235 C 1244 [50X D-D C SEMICON IC 1301	ON BLOCK]	CEHAT101M10 CKSRYB473K16 CEHAT470M16 CKSRYB105K6R3 CKSRYB104K25	C 1501 C 1503,1504 C 1505 C 1506 C 1506 [DRIVE HEATSINK M] MISCELLANEOUS 3001,3001 3101,3101 RESISTORS	ACG1139 ACH1423 CKSYB105K25 ANH1656 ANG2679
C 1228 C 1230 C 1231,7 C 1233 C 1234 C 1235 C 1244 [50X D-D C SEMICON IC 1301 IC 1302	ON BLOCK]	CEHAT101M10 CKSRYB473K16 CEHAT470M16 CKSRYB105K6R3 CKSRYB104K25 PS2701A-1(L) TA76431FR	C 1501 C 1503,1504 C 1505 C 1506 [DRIVE HEATSINK M] MISCELLANEOUS 3001,3001 3101,3101	ACG1139 ACH1423 CKSYB105K25 ANH1656
C 1228 C 1230 C 1231,7 C 1233 C 1234 C 1235 C 1244 [50X D-D C SEMICON IC 1301 IC 1302 Q 1301	ON BLOCK] DUCTORS	CEHAT101M10 CKSRYB473K16 CEHAT470M16 CKSRYB105K6R3 CKSRYB104K25 PS2701A-1(L) TA76431FR 2SC2412K	C 1501 C 1503,1504 C 1505 C 1506 C 1506 [DRIVE HEATSINK M] MISCELLANEOUS 3001,3001 3101,3101 RESISTORS	ACG1139 ACH1423 CKSYB105K25 ANH1656 ANG2679
C 1228 C 1230 C 1231,7 C 1233 C 1234 C 1235 C 1244 [50X D-D C SEMICON IC 1301 IC 1302 Q 1301 Q 1303,7	ON BLOCK] DUCTORS	CEHAT101M10 CKSRYB473K16 CEHAT470M16 CKSRYB105K6R3 CKSRYB104K25 PS2701A-1(L) TA76431FR 2SC2412K HN1C01FU	C 1501 C 1503,1504 C 1505 C 1506 C 1506 [DRIVE HEATSINK M] MISCELLANEOUS 3001,3001 3101,3101 RESISTORS	ACG1139 ACH1423 CKSYB105K25 ANH1656 ANG2679
C 1228 C 1230 C 1231,7 C 1233 C 1234 C 1235 C 1244 [50X D-D C SEMICON IC 1301 IC 1302 Q 1301	ON BLOCK] DUCTORS	CEHAT101M10 CKSRYB473K16 CEHAT470M16 CKSRYB105K6R3 CKSRYB104K25 PS2701A-1(L) TA76431FR 2SC2412K	C 1501 C 1503,1504 C 1505 C 1506 C 1506 [DRIVE HEATSINK M] MISCELLANEOUS 3001,3001 3101,3101 RESISTORS	ACG1139 ACH1423 CKSYB105K25 ANH1656 ANG2679
C 1228 C 1230 C 1231,7 C 1233 C 1234 C 1235 C 1244 [50X D-D C SEMICON IC 1301 IC 1302 Q 1301 Q 1303,7 Q 1304,7	ON BLOCK] DUCTORS	CEHAT101M10 CKSRYB473K16 CEHAT470M16 CKSRYB105K6R3 CKSRYB104K25 PS2701A-1(L) TA76431FR 2SC2412K HN1C01FU 2SD1898	C 1501 C 1503,1504 C 1505 C 1506 [DRIVE HEATSINK M] MISCELLANEOUS 3001,3001 3101,3101 RESISTORS All Resistors	ACG1139 ACH1423 CKSYB105K25 ANH1656 ANG2679 RS1/16S###J
C 1228 C 1230 C 1231,7 C 1233 C 1234 C 1235 C 1244 [50X D-D C SEMICON IC 1301 IC 1302 Q 1301 Q 1303,7 Q 1304,7	ON BLOCK] DUCTORS	CEHAT101M10 CKSRYB473K16 CEHAT470M16 CKSRYB105K6R3 CKSRYB104K25 PS2701A-1(L) TA76431FR 2SC2412K HN1C01FU 2SD1898 2SA1037K	C 1501 C 1503,1504 C 1505 C 1506 [DRIVE HEATSINK M] MISCELLANEOUS 3001,3001 3101,3101 RESISTORS All Resistors	ACG1139 ACH1423 CKSYB105K25 ANH1656 ANG2679 RS1/16S###J
C 1228 C 1230 C 1231,7 C 1233 C 1234 C 1235 C 1244 [50X D-D C SEMICON IC 1301 IC 1302 Q 1301 Q 1303,7 Q 1304,7	ON BLOCK] DUCTORS	CEHAT101M10 CKSRYB473K16 CEHAT470M16 CKSRYB105K6R3 CKSRYB104K25 PS2701A-1(L) TA76431FR 2SC2412K HN1C01FU 2SD1898	C 1501 C 1503,1504 C 1505 C 1506 [DRIVE HEATSINK M] MISCELLANEOUS 3001,3001 3101,3101 RESISTORS All Resistors 50 Y MAIN DRIVE A [50Y LOGIC BLOCK]	ACG1139 ACH1423 CKSYB105K25 ANH1656 ANG2679 RS1/16S###J
C 1228 C 1230 C 1231,7 C 1233 C 1234 C 1235 C 1244 [50X D-D C SEMICON IC 1301 IC 1302 Q 1301 Q 1303,7 Q 1304,7	ON BLOCK] DUCTORS	CEHAT101M10 CKSRYB473K16 CEHAT470M16 CKSRYB105K6R3 CKSRYB104K25 PS2701A-1(L) TA76431FR 2SC2412K HN1C01FU 2SD1898 2SA1037K	C 1501 C 1503,1504 C 1505 C 1506 [DRIVE HEATSINK M] MISCELLANEOUS 3001,3001 3101,3101 RESISTORS All Resistors	ACG1139 ACH1423 CKSYB105K25 ANH1656 ANG2679 RS1/16S###J
C 1228 C 1230 C 1231,7 C 1233 C 1234 C 1235 C 1244 [50X D-D C SEMICON IC 1301 IC 1302 Q 1301 Q 1303,7 Q 1304,7 Q 1305 Q 1402	ON BLOCK] DUCTORS 1306,1307 1401	CEHAT101M10 CKSRYB473K16 CEHAT470M16 CKSRYB105K6R3 CKSRYB104K25 PS2701A-1(L) TA76431FR 2SC2412K HN1C01FU 2SD1898 2SA1037K 2SC4081	C 1501 C 1503,1504 C 1505 C 1506 [DRIVE HEATSINK M] MISCELLANEOUS 3001,3001 3101,3101 RESISTORS All Resistors 50 Y MAIN DRIVE A [50Y LOGIC BLOCK] SEMICONDUCTORS	ACG1139 ACH1423 CKSYB105K25 ANH1656 ANG2679 RS1/16S###J
C 1228 C 1230 C 1231,7 C 1233 C 1234 C 1235 C 1244 [50X D-D C SEMICON IC 1301 IC 1302 Q 1301 Q 1303,7 Q 1305 Q 1402 D 1307 D 1308,7	ON BLOCK] DUCTORS 1306,1307 1401	CEHAT101M10 CKSRYB473K16 CEHAT470M16 CKSRYB105K6R3 CKSRYB104K25 PS2701A-1(L) TA76431FR 2SC2412K HN1C01FU 2SD1898 2SA1037K 2SC4081 CRF03	C 1501 C 1503,1504 C 1505 C 1506 [DRIVE HEATSINK M] MISCELLANEOUS 3001,3001 3101,3101 RESISTORS All Resistors 50 Y MAIN DRIVE A [50Y LOGIC BLOCK]	ACG1139 ACH1423 CKSYB105K25 ANH1656 ANG2679 RS1/16S###J
C 1228 C 1230 C 1231,7 C 1233 C 1234 C 1235 C 1244 [50X D-D C SEMICON IC 1301 IC 1302 Q 1301 Q 1303,7 Q 1305 Q 1402 D 1307 D 1308,7	ON BLOCK] DUCTORS 1306,1307 1401	CEHAT101M10 CKSRYB473K16 CEHAT470M16 CKSRYB105K6R3 CKSRYB104K25 PS2701A-1(L) TA76431FR 2SC2412K HN1C01FU 2SD1898 2SA1037K 2SC4081 CRF03 UDZS5R1(B)	C 1501 C 1503,1504 C 1505 C 1506 [DRIVE HEATSINK M] MISCELLANEOUS 3001,3001 3101,3101 RESISTORS All Resistors 50 Y MAIN DRIVE A [50Y LOGIC BLOCK] SEMICONDUCTORS IC 2001,2003 IC 2002	ACG1139 ACH1423 CKSYB105K25 ANH1656 ANG2679 RS1/16S###J
C 1228 C 1230 C 1231,7 C 1233 C 1234 C 1235 C 1244 [50X D-D C SEMICON IC 1301 IC 1302 Q 1301 Q 1303,7 Q 1305,7 Q 1305,7 D 1308,7 D 1309,7	ON BLOCK] DUCTORS 1306,1307 1401	CEHAT101M10 CKSRYB473K16 CEHAT470M16 CKSRYB105K6R3 CKSRYB104K25 PS2701A-1(L) TA76431FR 2SC2412K HN1C01FU 2SD1898 2SA1037K 2SC4081 CRF03 UDZS5R1(B) CRH01	C 1501 C 1503,1504 C 1505 C 1506 [DRIVE HEATSINK M] MISCELLANEOUS 3001,3001 3101,3101 RESISTORS All Resistors 50 Y MAIN DRIVE A [50Y LOGIC BLOCK] SEMICONDUCTORS IC 2001,2003 IC 2002 D 2001,2006,2007,2011	ACG1139 ACH1423 CKSYB105K25 ANH1656 ANG2679 RS1/16S###J
C 1228 C 1230 C 1231,7 C 1233 C 1234 C 1235 C 1244 [50X D-D C SEMICON IC 1301 IC 1302 Q 1301 Q 1303,7 Q 1305 Q 1402 D 1307 D 1308,7 D 1309,7	ON BLOCK] DUCTORS 1306,1307 1401	CEHAT101M10 CKSRYB473K16 CEHAT470M16 CKSRYB105K6R3 CKSRYB104K25 PS2701A-1(L) TA76431FR 2SC2412K HN1C01FU 2SD1898 2SA1037K 2SC4081 CRF03 UDZS5R1(B) CRH01 1SS301	C 1501 C 1503,1504 C 1505 C 1506 [DRIVE HEATSINK M] MISCELLANEOUS 3001,3001 3101,3101 RESISTORS All Resistors 50 Y MAIN DRIVE A [50Y LOGIC BLOCK] SEMICONDUCTORS IC 2001,2003 IC 2002	ACG1139 ACH1423 CKSYB105K25 ANH1656 ANG2679 RS1/16S###J

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Mark No.	Description	Part No.	<u>Mark</u>	No.	Description	Part No.	
D 2012	•	1SS355	IC	2204,2209	-	PS9117P	
			IC	2210		TND307TD	
MISCELLANE	OUS		IC	2212		TND301S	
K 2011,2014		AKX1061	IC	2213		MM1565AF	Α
CN 2001		AKM1348	Q	2201		2SA2142	
RESISTORS			Q	2202,2214		2SC4081	
R 2001,2003,	2008 2020	RAB4C470J	Q	2203		R5009ANJ	
R 2002,2006	2000,2020	RAB4C101J	Q	2204,2206,2	207,2209	H5N2512LS	
R 2004,2005,	2013,2025	RAB4C472J	Q	2210,2216		FKP280AS	Ī
VR 2001,2002		CCP1390	Q	2211,2213,2	217 2210	H5N2512LS	_
Other Resistors		RS1/16S###J	Q	2215,2221,2	•	QSZ2	
CAPACITORS			Q	2220,2223	·	FKP300AS	
C 2001		CEHAT470M16	Q	2236		2SK3050	
C 2002–2004		CKSRYB104K16	Q	2238		R6008ANJ	В
C 2005,2006		CCSRCH331J50) Q	2261		DTC143EK	Б
C 2007		CCSRCH680J50	Q	2262		DTC123TKA	
			D	2201,2202,2	204,2209	CRH01	
[50Y RESONAN	ICE BI COKI		D	2203,2225		1SS355	
SEMICONDUC			D	2205,2206		1SS302	
IC 2101,2104		TND307TD	D	2207		CRF03	
IC 2102		PS9117P	D	2208,2212		UDZS5R6(B)	
IC 2106		PS2701A-1(L)	D	2210,2213,2	216	CRH01	
IC 2107		AXF1163	D	2211		D1FL40	
Q 2101		2SC2412K	D	2219		1SS301	
Q 2103,2106		QSZ2	D	2220–2222,2	2231 2301	CRH01	С
Q 2110,2111		2SC4081	D	2223,2224	-201,2001	UDZS16(B)	
D 2101,2112		UDZS5R6(B)	D	2241		UDZS8R2(B)	
D 2107		CRH01					
D 2113		UDZS15(B)		CELLANEC		DTI II 104	
MISCELLANE	ous		L L	2201,2203,2 2202	204	BTH1134 ATH1186	_
L 2101		ATH1217	F	2201–2214		ATX1062	
L 2103		ATH1216	F	2221		CTF1449	
F 2101		CTF1449	K	2202-2204		AKX1061	
2101 2102		ANH1653 AEH1092	IZNI	0004 0004 0	2040 0047	ANUCAGAA	
2102		AEH1092		2201–2204,2 2202	2210-2217	ANK1841 14PL-FJ	
2103		BMZ30P080FTC		2204		B9B-EH	D
			220)2		PMB30P080FNI	
RESISTORS							
R 2109		ACN1259 ACN1255		ISTORS		D0011450011	
R 2112,2133 R 2113,2114		RS1/10S4702F	R R	2201 2202,2204		RS3LMF821J RS1/10S151J	
R 2118		ACN1241	R	2217,2219,2	222.2224	RS1/10S100J	
R 2120		RS1/16S1002F	R	2225	,	ACN1254	
D 0101		D04/4000000	R	2226,2235,2	243,2246	RS1/10S2R2J	
R 2121 R 2126		RS1/16S3302F RS1/16S4701F	5	0000 0000	006 0000	D01/100100 !	
R 2129		ACN1258	R R	2228,2230,23 2234,2255,23	•	RS1/10S100J RS1/10S0R0J	
Other Resistors		RS1/16S###J	R	2260	0,2	ACN1257	Е
			R	2264		ACN1258	_
<u>CAPACITORS</u>			R	2280		RS3LMF471J	
C 2101,2114		CEHAT470M25		2001 2004		ACN11041	
C 2102,2115 C 2103		CKSRYF104Z50 CKSRYB104K16	_	2281–2284 2341,2343		ACN1241 RS2LMF5R6J	
C 2104,2116		CKSYB105K25	•	er Resistors		RS1/16S###J	_
C 2107		ACG1139					
0 215		105::		<u>ACITORS</u>			
C 2108–2111 C 2113		ACE1178 ACH1450		2201,2209,2	•	CEHAT470M25	
C 2113		ACH1450 ACG1138	C	2202,2208,2 2203	Z1U,ZZ10	CKSRYF104Z50 ACH1427	
Ç 2111		7.001100	C	2203		CCSRCH102J50	
			Č	2205,2256		ACG1126	F
[50Y SUS BLOC	-			•			
SEMICONDUC			С	2207,2217,2	•	CKSRYB104K16	
IC 2201,2203,	2205,2208	TND307TD	С	2211,2212,2	225,2226	ACG1139	
			PDP-507XD				31
■ 5	5 -	6	- DI 007712	7	_	8	

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	Mark No. Description	Part No.	Mark No. Description	Part No.
	C 2218,2219,2224,2261 C 2221 C 2223,2232	CKSYB105K25 CCSRCH221J50 CKSRYF104Z50	[50Y D-D CON BLOCK] SEMICONDUCTORS	
Α	C 2227,2231 C 2234,2240 C 2237,2241	CEHAT470M25 CEHAT2R2M2E ACH1423	IC 2501,2502,2504 IC 2503 IC 2506,2514 Q 2501,2506,2511	PS2701A-1(L) BA10358F TA76431FR 2SD1898
	C 2238,2239 C 2244	ACE1178 ACH1449	Q 2502,2507 Q 2503,2515	2SA1576A DTC143EUA
	C 2246 C 2247,2252 C 2249	ACH1426 CEHAT101M10 CKSRYB473K16	Q 2504,2509,2513 Q 2505	HN1C01FU 2SC2713
	C 2250 C 2251	CEHAT470M16 CKSRYB105K6R3	Q 2508 Q 2510	2SA2005 2SA1163
В	C 2271,2276	CKSRYB104K25	Q 2512,2514 Q 2520 D 2501,2503,2510,2516 D 2502,2512,2518	2SC4081 2SC2412K CRH01 1SS301
	[50Y VH D-D CON BLOCK] SEMICONDUCTORS		D 2504,2508	UDZS4R7(B)
	IC 2401 IC 2402	BA10358F MIP2E3DMU	D 2505,2507,2513,2517 D 2509	1SS355 D1FL40
-	IC 2403 IC 2405,2412 Q 2401	PS2701A-1(L) TA76431FR 2SC3425	D 2511 D 2515,2521 D 2519,2520,2523	1SS302 UDZS5R1(B) 1SS355
С	Q 2402 Q 2403	2SD2568 2SC4081	D 2522 D 2524	UDZS5R6(B) UDZS15(B)
	Q 2404 D 2402,2407 D 2403	HN1C01FU CRF03 UDZS33(B)	MISCELLANEOUS T 2501	ATK1156
_	D 2404 D 2406,2410	1SS355 UDZS4R7(B)	T 2502 T 2503	ATK1161 ATK1159
	D 2408,2409 D 2411	CRH01 UDZS12(B)	RESISTORS R 2510,2514,2539,2543	RS1/16S4701F
	MISCELLANEOUS	DTI 14400	R 2513 R 2523	RAB4C472J RS1/16S4702F
D	L 2401 T 2401	BTH1136 ATK1158	R 2524,2531 R 2530,2532	RS1/10S224J RS1/16S1501F
	RESISTORS R 2401,2402	RS1/10S104J	R 2533 R 2536	RS3LMF151J RS1/16S1002F
	R 2403,2404,2406	RS1/10S2203F	R 2544	RS1/16S4701F
	R 2407,2410 R 2412 R 2413	RS1/16S5601F RS1/16S1003F RS1/16S1802F	R 2550 R 2554	RS1/16S5601F RS1/16S6801F
-	R 2414,2415	RS1/16S4702F	VR 2501 Other Resistors	CCP1390 RS1/16S###J
	R 2416 R 2420,2421,2424	RS1/10S0R0J RS1/10S473J	CAPACITORS	
	R 2426	RAB4C472J	C 2501,2502,2514	CEHAT101M25
Е	VR 2401	CCP1392	C 2503,2515	ACG1105
_	VR 2402 Other Resistors	CCP1390 RS1/16S###J	C 2504 C 2505,2506,2512 C 2507	CKSRYB102K50 CKSRYB104K16 CEHAT221M6R3
	CAPACITORS C 2401	ACE1177	C 2508 C 2509,2510,2518	CEHAT221M25 CKSRYB103K50
	C 2402	ACH1425	C 2511,2516	CKSRYB105K6R3
	C 2403,2404 C 2405,2407,2412 C 2408	CKSRYB104K25 CKSRYB104K16 CEHAT101M16	C 2513 C 2517	CKSYB105K25 CKSRYF104Z50
_	C 2409 C 2410	CEHAT470M25 CEHAT101M25	C 2519–2521,2525	CKSRYB104K16
F	C 2411 C 2413	ACH1450 CEHAT221M16	[50Y SCAN BLOCK]	
	C 2413 C 2421	ACH1451	SEMICONDUCTORS IC 2601–2603,2607	TLP116
-	32 1 -	PDF 2	2-507XD 3 ■	4

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Mark No. Description	Part No.	Mark No. Description	Part No.	
IC 2604–2606	PS9117P	CN 4001,4004,4005	AKM1349	
IC 2610,2611	TC74AC540FT	CN 4006	KM200NA6	
		CN 4013	AKM1353	_
MISCELLANEOUS	DTUAGA	CN 4014	AKM1354	Α
L 2601,2611 CN 2601	BTH1134 AKM1200	CN 4014 CN 4018	AKM1233	
CIN 2001	ARWITZOO	G. 16.16	7 11 11111 200	
RESISTORS		RESISTORS		
R 2624	RAB4C220J	R 4001	RAB4CQ470J	
R 2631	RS1/10S0R0J	R 4021-4024	BCN1067	
Other Resistors	RS1/16S###J	R 4030,4031,4035	RS1/16S0R0J	_
A DA OITO DO		Other Resistors	RS1/16SS###J	
CAPACITORS C 2601,2623	CEHAT101M10	CAPACITORS		
C 2602,2603,2611–2617	CKSRYB104K16	C 4001–4003,4007,4009	CKSSYF104Z16	
C 2621,2622	ACH1450	C 4004	CCSSCH101J50	В
C 2631	CKSRYB104K16	C 4006,4036,4039	DCH1201	В
		C 4008	DCH1165	
50 V 0115 55 75 10	0V	C 4014	CKSSYF104Z16	
50 Y SUB DRIVE AS	5 Y	C 4033,4051	CKSRYF104Z50	
SEMICONDUCTORS		C 4048-4050	CCSSCH470J50	
Q 2701	FKP280AS			
Q 2711	FKP300AS			-
Q 2721,2723,2725,2726 Q 2731	H5N2512LS QSZ2	[REG 0 BLOCK]		
D 2701	CRH01	SEMICONDUCTORS	0.4400040115	
		IC 4101,4114,4115 IC 4102	S-1132B18-U5 LTC3414EFE	
<u>MISCELLANEOUS</u>		IC 4102	LTC3414EFE LTC3412EFE	0
F 2701–2706	ATX1062	IC 4104,4111,4113	NJM2846DL3-05	С
K 2701	AKX1061	IC 4105	S-1170B25UC-OTK	
KN 2701,2702,2711–2713 CN 2701	ANK1841 14R-FJ			
2702	PMB30P080FNI	IC 4106 IC 4107	S-1170B15UC-OTA	
		IC 4107	NJM2846DL3-33 NJM2846DL3-18	
<u>RESISTORS</u>		IC 4109,4110	PQ090DNA1ZPH	
R 2702,2712	RS1/10S2R2J	Q 4101,4103	RN1902	
R 2722,2724,2726,2727	RS1/10S100J			
R 2732 Other Resistors	RS1/10S0R0J RS1/16S###J	Q 4102 Q 4104	HN1C01FU	
Other resistors	1131/103###0	Q 4104 Q 4105,4106	DTC124EUA UPA1917TE	
CAPACITORS		Q 4107–4109	2SC4116	D
C 2701	ACE1178	Q 4110	2SD2114K	
C 2702	ACH1423	_ ,	10005-	
C 2703	ACG1088	D 4101–4110,4112–4118	1SS355	
C 2711,2721 C 2731	ACG1139 CKSYB105K25	D 4111,4120,4122 D 4121	1SS357 1SS355	
C 2731	UN310103N25	D 4121	100000	_
		MISCELLANEOUS		
DRIVE HEATSINK M]		L 4101,4103	BTX1042	
MISCELLANEOUS		L 4102,4105–4107	BTX1039	
3001,3001	ANH1656	L 4108	ATH1208	
3101,3101	ANG2679	L 4109 F 4101,4102	ATH1194 VTF1080	
DECICTORS		F 4101,410∠	V 1 F 1 UÖU	Е
RESISTORS All Pocietors	RS1/16S###J	J 4101,4102	ADX3513	
Ill Resistors	n⊃ ı/ lø⊃###J	·		
		<u>RESISTORS</u>		
		R 4113,4134–4136,4140	RS1/10S0R0J	
MAIN ASSY		R 4119,4131,4146	RS1/16SS3003F	_
BOARD IF BLOCK]		R 4120 R 4123,4159	RS1/16SS2003F RS1/16SS1502F	
SEMICONDUCTORS		R 4124	RS1/16SS6202F	
IC 4001–4005	TC74VCX541FT			
Q 4001,4002,4005	DTC124EUA	R 4133	RS1/16SS1503F	
Q 4003,4004	RN2902	R 4148,4164–4170,4173	RS1/10S0R0J	
MISCELL ANEOLIS		R 4157	ACN1268	F
MISCELLANEOUS L 4001–4006	BTX1042	Other Resistors	RS1/16SS###J	
£ 4001–4006 ↑F 4001–4010	CTF1557	CAPACITORS		
		<u> </u>		
		PDP-507XD	;	33

	Mark	No.	Description	Part No).	Mark	No.	Description	Part No.
		4018,4101,4	•	CKSRYB10	_		4602	•	HY57V641620ETP-H
		4102,4104,4		DCH1201	OKTO	IC	4603		AGC1020
		4108	100,4107	CKSRYB10	5K10	IC	4606		TC74LCX125FT
Α		4109,4111–4	1113 4116	DCH1201	OKTO	IC	4607		TC7SH04FUS1
^	Č	4110,4117	7110,7110	CCSSCH10	11.150	.0	4007		107011041 001
	O	4110,4117		000001110	71000	Q	4601,4602		UMD2N
	С	4114,4118		BCG1050		D	4601		1SS355
	Č	4119,4127,4	131.4134	DCH1201		D	4602		UDZS12(B)
		4121,4140,4	·	CKSSYB10	4K10	D	4603		UDZS3R0(B)
_	С	4122,4129		CCSSCH22		D	4604		UDZS3R9(B)
		4123,4124,4	126,4130	DCH1165					()
						MISC	CELLANE	OUS	
	С	4132		ACH1421		X			ASS1193
	С	4135,4138,4	143–4146	DCH1201					
	С	4136,4137,4	141,4142	BCG1059		RES	<u>ISTORS</u>		
	С	4139		CCSRCH4	71J50	R	4601		ACN1251
В	С	4147		CCSRCH10	D2J50	R		6,4608,4625	BCN1067
						R	4627,4650		RS1/16S0R0J
	С	4150		ACH1429		R	4640		RAB4CQ470J
	С	4151		CKSSYB10		R	4644,4646		RAB4CQ680J
		4154		CKSSYF10					
	С	4155		CKSSYB10	3K16	R	4645,4647	,4648	RAB4CQ103J
	С	4165		DCH1201		R	4649		RS1/10S0R0J
_						Oth	ner Resistors	3	RS1/16SS###J
	FATLIA	JED BLOC	V1						
	_	NER BLOC	-			CAP	ACITORS	<u> </u>	
		CONDUC	IURS			С	4603,4612	,4646,4650	DCH1201
		4501		MSP3417G		С	4604		CKSSYB103K16
С	Q	4501		DTC124EU	A	С	4605,4606		CCSSCH220J50
-		4503		UMD2N		С	4607		CKSSYB102K50
	Q	4504		HN1B04FU		С	4610,4611	,4613,4615	CKSSYF104Z16
	Q	4505		2SC4116		_			
	Q	4506		2SA1586		С		,4621,4623	CKSSYF104Z16
	Q	4508		HN1C01FU	ı	С		,4629,4631	CKSSYF104Z16
	D	4501		UDZS24(B)		С		,4636,4639	CKSSYF104Z16
-		4502,4505		UDZS8R2(I		C	4642,4644 4647	,4648,4651	CKSSYF104Z16 CKSSYB104K10
		,		,	,	C	4047		CK331D104K10
	MISC	ELLANEC	<u>ous</u>			С	4652.4655	,4657,4659	CKSSYF104Z16
	L	4501-4503		BTH1119		•	.002, .000	,	0.1001.101.2.10
	F	4501-4503		VTF1080					
D	X	4501		ASS1196		TAV S	W BLOCK	(1	
0	ΔU	4501		AXF1172		_	ICONDU	-	
							4701	<u> </u>	R2S11002AFT
	RESI	STORS					4702,4706		NJM12904V
	R	4517		RS1/16S33	0J		4703		PCM1803DB
	R	4522,4523		RS1/16S47	0J	IC	4704		NJU26901E2
	Oth	er Resistors		RS1/16SS#	##J		4705		PCM1754DBQ
-									
	CAPA	ACITORS				Q	4701,4702	,4721	UMD2N
	С	4501–4503		CKSRYF10			4703–4708		2SA1586
		4504		CKSRYB68			4711,4712	,4716,4717	2SC4116
		4505,4512		CCSSCH5		Q			DTA124EUA
Ε	С	4506	540.454.4	CKSSYB10		Q	4719,4720		2SC4116
_	С	4507,4508,4	513,4514	CCSSCH10	00D50	0	4700 4700		LINADOAELI
	0	4500 4515 4	E10	CKCCAD10	OVEO		4722,4723		HN1B04FU
		4509,4515,4 4511	310	CKSSYB10		D D	4701,4702 4703	,4704,4705	1SS301 1SS355
		4520		CEHVKW1		ט	7100		100000
		4521,4523,4	525.4528	DCH1201		MICO	CELLANE	OUS	
		4527,4529,4	·	CKSSYF10	4Z16		4701		ASS1204
-	-	,,.	•			^	7701		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	С	4530,4532-4	1534,4538	DCH1201		RES	ISTORS		
	С	4539,4543		CKSSYF10	4Z16		4736,4737		RS1/16S5600F
	С	4541		DCH1201		R	4730,4737		RS1/16S1800F
							4794,4795		RS1/16S182J
F						R	4815–4817		RS1/10S0R0J
'	_	L COM B	-			R	4849		RS1/16S472J
	<u>SEMI</u>	CONDUC	<u>TORS</u>						
	IC	4601		SDA6000		R	4853		RS1/16S222J
							_		
;	34				PDP-507XD				

/lark	5	6	7	8
	No. Description	Part No.	Mark No. Description	Part No.
R	4860,4861,4863,4865	RS1/16S102J	MISCELLANEOUS	
R	4866	RAB4CQ470J	F 5101	CCG1162
Oth	ner Resistors	RS1/16SS###J	X 5101	ASS1189
			X 5102	ASS1191
CAP	ACITORS			
	4701,4723,4725,4731	CKSSYF104Z16	<u>RESISTORS</u>	
С	4702-4708,4710-4717	CKSRYB105K10	R 5101–5105	ACN1246
Č	4718,4719	CCSRCH181J50	R 5106,5107	BCN1067
С	4720,4721	CCSRCH681J50	R 5108–5110	RS1/16S0R0J
C	4722,4724,4726,4733	DCH1201	R 5127	RS1/16SS6200D
	,,,		R 5133–5135	RS1/16SS2000F
С	4727,4730	CKSSYB104K10	n 5155–5155	H3 I/ 103320001
C	4728,4729	CKSRYB221K50	R 5140	RS1/16S334J
Č	4732,4744,4751,4752	CKSSYF104Z16	R 5141	RS1/16SS2201D
Ċ	4734,4749,4750,4757	DCH1201	R 5142	RS1/16SS1001D
Ċ	4735,4736,4739-4742	CKSRYB105K10	R 5147,5148	RAB4CQ220J
Ŭ	17 66, 17 66, 17 66 17 12	ONOTH DIRECTIO	R 5147,5146 R 5149–5151,5153,5155	RS1/10S0R0J
С	4737	ACG1122	n 5149–5151,5155,5155	NS 1/1030N00
Ċ	4745,4767,4768	DCH1165	Other Desisters	DC1/16CC### I
C	4753	ACH1394	Other Resistors	RS1/16SS###J
C	4754,4755,4759,4760	CKSRYB105K10	O A DA OLTO DO	
C	4756,4761,4763,4764	CKSSYF104Z16	CAPACITORS	0140-11-11-11
J	55,71 51,71 55,71 57	01.0011 10±210	C 5101–5103	CKSRYB105K10
С	4758,4762,4765	DCH1201	C 5104,5105	CCSSCH100D50
C	4756,4762,4765 4766,4772–4774	CKSSYF104Z16	C 5106,5107,5136,5140	CKSSYB103K16
C	4769-4771	DCH1201	C 5108,5109	CCSSCH8R0D50
C	4775,4776	CKSSYB681K50	C 5113,5118,5119	DCH1201
C	4777,4779	CKSSYB152K50		
C	4777,4779	CK331B132K30	C 5117,5120,5123,5125	CKSSYF104Z16
0	4778	CCCCCI IOO1 IEO	C 5121,5122,5124,5127	CKSSYB104K10
C		CCSSCH221J50	C 5126,5129,5131,5133	CKSSYF104Z16
C	4780–4783 4784,4785	CKSRYB105K10 CCSRCH331J50	C 5128,5130,5132,5134	CKSSYB104K10
C	4764,4765	CC3HCH331350	C 5135,5137,5139	CKSSYB104K10
	0 0 W DI 0 0 W		C 5138,5144,5155–5165	CKSSYF104Z16
	S SW BLOCK]		C 5141–5143,5145,5151	CKSSYB104K10
	IICONDUCTORS		C 5150	CKSSYB103K16
IC	4901	R2S11001FT	C 5153,5191	CKSSYB104K10
Q	4901–4903,4905	2SA1586		
Q	4904,4906	HN1B04FU		
D	4901–4903	UDZS4R7(B)	[ADC BLOCK]	
			SEMICONDUCTORS	
<u>RES</u>	<u>ISTORS</u>		IC 5301	AD9985KSTZ-110
	4913–4918	RS1/16SS3301F		
R	4919,4926,4930	RS1/16SS5600F	<u>RESISTORS</u>	
R	4921,4928,4932	RS1/16SS75R0F	R 5301–5303	BCN1067
R	4925	RAB4CQ102J	R 5305	RS1/16SS2701F
R	4964-4966	RS1/16S75R0F	R 5307,5308,5312,5313	RS1/16SS470J
			· · · · · · · · · · · · · · · · · · ·	
		RS1/16SS###J	R 5310,5311	
Oth	ner Resistors	1101/1000πππ0		RS1/10S0R0J
Oth	ner Resistors	1101/1000###0	Other Resistors	RS1/16S###J
		1101/1000###0	Other Resistors	
CAP	ACITORS		Other Resistors CAPACITORS	RS1/16S###J
CAP.	ACITORS 4901–4903,4922,4932	CKSRYB105K10	Other Resistors CAPACITORS C 5301	RS1/16S###J CKSSYB823K10
C C C	ACITORS 4901–4903,4922,4932 4904	CKSRYB105K10 CCSRCH331J50	Other Resistors CAPACITORS C 5301 C 5302	RS1/16S###J CKSSYB823K10 CKSSYB822K16
CAP.	ACITORS 4901–4903,4922,4932 4904 4905	CKSRYB105K10 CCSRCH331J50 CCSRCH680J50	Other Resistors CAPACITORS C 5301 C 5302 C 5303–5305	RS1/16S###J CKSSYB823K10 CKSSYB822K16 CKSSYB473K16
CAP C C C C	ACITORS 4901–4903,4922,4932 4904 4905 4906–4910,4912-4915	CKSRYB105K10 CCSRCH331J50 CCSRCH680J50 CKSSYB103K16	Other Resistors CAPACITORS C 5301 C 5302 C 5303–5305 C 5307,5313	RS1/16S###J CKSSYB823K10 CKSSYB822K16 CKSSYB473K16 CKSSYB104K10
CAP C C C	ACITORS 4901–4903,4922,4932 4904 4905	CKSRYB105K10 CCSRCH331J50 CCSRCH680J50	Other Resistors CAPACITORS C 5301 C 5302 C 5303–5305	RS1/16S###J CKSSYB823K10 CKSSYB822K16 CKSSYB473K16
CAP. C C C C	ACITORS 4901–4903,4922,4932 4904 4905 4906–4910,4912-4915 4911,4935	CKSRYB105K10 CCSRCH331J50 CCSRCH680J50 CKSSYB103K16 CKSRYB474K10	Other Resistors CAPACITORS C 5301 C 5302 C 5303–5305 C 5307,5313 C 5308–5312,5314–5316	CKSSYB823K10 CKSSYB822K16 CKSSYB473K16 CKSSYB104K10 CKSSYF104Z16
CAP C C C C	ACITORS 4901–4903,4922,4932 4904 4905 4906–4910,4912-4915 4911,4935 4916,4923,4924,4926	CKSRYB105K10 CCSRCH331J50 CCSRCH680J50 CKSSYB103K16 CKSRYB474K10 CKSSYF104Z16	Other Resistors CAPACITORS C 5301 C 5302 C 5303–5305 C 5307,5313	RS1/16S###J CKSSYB823K10 CKSSYB822K16 CKSSYB473K16 CKSSYB104K10
CAP C C C C C C	ACITORS 4901–4903,4922,4932 4904 4905 4906–4910,4912-4915 4911,4935 4916,4923,4924,4926 4917–4921	CKSRYB105K10 CCSRCH331J50 CCSRCH680J50 CKSSYB103K16 CKSRYB474K10 CKSSYF104Z16 CKSSYB103K16	Other Resistors CAPACITORS C 5301 C 5302 C 5303–5305 C 5307,5313 C 5308–5312,5314–5316	CKSSYB823K10 CKSSYB822K16 CKSSYB473K16 CKSSYB104K10 CKSSYF104Z16
CAP. C C C C C C C C C C C C C C C C C C C	ACITORS 4901–4903,4922,4932 4904 4905 4906–4910,4912-4915 4911,4935 4916,4923,4924,4926 4917–4921 4925,4927	CKSRYB105K10 CCSRCH331J50 CCSRCH680J50 CKSSYB103K16 CKSRYB474K10 CKSSYF104Z16 CKSSYB103K16 DCH1201	Other Resistors CAPACITORS C 5301 C 5302 C 5303–5305 C 5307,5313 C 5308–5312,5314–5316 C 5318,5319	CKSSYB823K10 CKSSYB822K16 CKSSYB473K16 CKSSYB104K10 CKSSYF104Z16
CAP	ACITORS 4901–4903,4922,4932 4904 4905 4906–4910,4912-4915 4911,4935 4916,4923,4924,4926 4917–4921 4925,4927 4928–4931	CKSRYB105K10 CCSRCH331J50 CCSRCH680J50 CKSSYB103K16 CKSRYB474K10 CKSSYF104Z16 CKSSYB103K16 DCH1201 CKSSYF104Z16	Other Resistors CAPACITORS C 5301 C 5302 C 5303–5305 C 5307,5313 C 5308–5312,5314–5316 C 5318,5319 [HDMI BLOCK]	CKSSYB823K10 CKSSYB822K16 CKSSYB473K16 CKSSYB104K10 CKSSYF104Z16
CAP	ACITORS 4901–4903,4922,4932 4904 4905 4906–4910,4912-4915 4911,4935 4916,4923,4924,4926 4917–4921 4925,4927	CKSRYB105K10 CCSRCH331J50 CCSRCH680J50 CKSSYB103K16 CKSRYB474K10 CKSSYF104Z16 CKSSYB103K16 DCH1201	Other Resistors CAPACITORS C 5301 C 5302 C 5303–5305 C 5307,5313 C 5308–5312,5314–5316 C 5318,5319	CKSSYB823K10 CKSSYB822K16 CKSSYB473K16 CKSSYB104K10 CKSSYF104Z16
CAP	ACITORS 4901–4903,4922,4932 4904 4905 4906–4910,4912-4915 4911,4935 4916,4923,4924,4926 4917–4921 4925,4927 4928–4931	CKSRYB105K10 CCSRCH331J50 CCSRCH680J50 CKSSYB103K16 CKSRYB474K10 CKSSYF104Z16 CKSSYB103K16 DCH1201 CKSSYF104Z16	Other Resistors CAPACITORS C 5301 C 5302 C 5303–5305 C 5307,5313 C 5308–5312,5314–5316 C 5318,5319 [HDMI BLOCK]	CKSSYB823K10 CKSSYB822K16 CKSSYB473K16 CKSSYB104K10 CKSSYF104Z16
CAP	ACITORS 4901–4903,4922,4932 4904 4905 4906–4910,4912-4915 4911,4935 4916,4923,4924,4926 4917–4921 4925,4927 4928–4931 4933	CKSRYB105K10 CCSRCH331J50 CCSRCH680J50 CKSSYB103K16 CKSRYB474K10 CKSSYF104Z16 CKSSYB103K16 DCH1201 CKSSYF104Z16	Other Resistors CAPACITORS C 5301 C 5302 C 5303–5305 C 5307,5313 C 5308–5312,5314–5316 C 5318,5319 [HDMI BLOCK] SEMICONDUCTORS	RS1/16S###J CKSSYB823K10 CKSSYB822K16 CKSSYB473K16 CKSSYB104K10 CKSSYF104Z16 CKSSYF104Z16
CAP	ACITORS 4901–4903,4922,4932 4904 4905 4906–4910,4912-4915 4911,4935 4916,4923,4924,4926 4917–4921 4925,4927 4928–4931 4933 CC BLOCK]	CKSRYB105K10 CCSRCH331J50 CCSRCH680J50 CKSSYB103K16 CKSRYB474K10 CKSSYF104Z16 CKSSYB103K16 DCH1201 CKSSYF104Z16	Other Resistors CAPACITORS C 5301 C 5302 C 5303–5305 C 5307,5313 C 5308–5312,5314–5316 C 5318,5319 [HDMI BLOCK] SEMICONDUCTORS IC 5401	RS1/16S###J CKSSYB823K10 CKSSYB822K16 CKSSYB473K16 CKSSYB104K10 CKSSYF104Z16 CKSSYF104Z16
CAP CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	4901–4903,4922,4932 4904 4905 4906–4910,4912-4915 4911,4935 4916,4923,4924,4926 4917–4921 4925,4927 4928–4931 4933 CC BLOCK]	CKSRYB105K10 CCSRCH331J50 CCSRCH680J50 CKSSYB103K16 CKSRYB474K10 CKSSYF104Z16 CKSSYB103K16 DCH1201 CKSSYF104Z16 CKSRYB105K10	Other Resistors CAPACITORS C 5301 C 5302 C 5303–5305 C 5307,5313 C 5308–5312,5314–5316 C 5318,5319 [HDMI BLOCK] SEMICONDUCTORS IC 5401 IC 5402	RS1/16S###J CKSSYB823K10 CKSSYB822K16 CKSSYB473K16 CKSSYB104K10 CKSSYF104Z16 CKSSYF104Z16 SII9023CTU PCM1754DBQ
CAP CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	4901–4903,4922,4932 4904 4905 4906–4910,4912-4915 4911,4935 4916,4923,4924,4926 4917–4921 4925,4927 4928–4931 4933 CC BLOCK] IICONDUCTORS 5101	CKSRYB105K10 CCSRCH331J50 CCSRCH680J50 CKSSYB103K16 CKSRYB474K10 CKSSYF104Z16 CKSSYB103K16 DCH1201 CKSSYF104Z16 CKSRYB105K10	Other Resistors CAPACITORS C 5301 C 5302 C 5303–5305 C 5307,5313 C 5308–5312,5314–5316 C 5318,5319 [HDMI BLOCK] SEMICONDUCTORS IC 5401 IC 5402 IC 5403,5404 Q 5401,5402	RS1/16S###J CKSSYB823K10 CKSSYB822K16 CKSSYB473K16 CKSSYB104K10 CKSSYF104Z16 CKSSYF104Z16 SII9023CTU PCM1754DBQ BR24L02FJ-W HN1K02FU
CAP CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	4901–4903,4922,4932 4904 4905 4906–4910,4912-4915 4911,4935 4916,4923,4924,4926 4917–4921 4925,4927 4928–4931 4933 CC BLOCK] IICONDUCTORS 5101 5102	CKSRYB105K10 CCSRCH331J50 CCSRCH680J50 CKSSYB103K16 CKSRYB474K10 CKSSYF104Z16 CKSSYB103K16 DCH1201 CKSSYF104Z16 CKSRYB105K10 UPD64015AGM-UEU EDS1616AGTA-75-E	CAPACITORS C 5301 C 5302 C 5303–5305 C 5307,5313 C 5308–5312,5314–5316 C 5318,5319 [HDMI BLOCK] SEMICONDUCTORS IC 5401 IC 5402 IC 5403,5404 Q 5401,5402	RS1/16S###J CKSSYB823K10 CKSSYB822K16 CKSSYB473K16 CKSSYB104K10 CKSSYF104Z16 CKSSYF104Z16 SII9023CTU PCM1754DBQ BR24L02FJ-W
CAP CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	4901–4903,4922,4932 4904 4905 4906–4910,4912-4915 4911,4935 4916,4923,4924,4926 4917–4921 4925,4927 4928–4931 4933 CC BLOCK] IICONDUCTORS 5101	CKSRYB105K10 CCSRCH331J50 CCSRCH680J50 CKSSYB103K16 CKSRYB474K10 CKSSYF104Z16 CKSSYB103K16 DCH1201 CKSSYF104Z16 CKSRYB105K10	CAPACITORS C 5301 C 5302 C 5303–5305 C 5307,5313 C 5308–5312,5314–5316 C 5318,5319 [HDMI BLOCK] SEMICONDUCTORS IC 5401 IC 5402 IC 5403,5404 Q 5401,5402 Q 5407,5408	RS1/16S###J CKSSYB823K10 CKSSYB822K16 CKSSYB473K16 CKSSYB104K10 CKSSYF104Z16 CKSSYF104Z16 SII9023CTU PCM1754DBQ BR24L02FJ-W HN1K02FU UMD2N
CAP CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	4901–4903,4922,4932 4904 4905 4906–4910,4912-4915 4911,4935 4916,4923,4924,4926 4917–4921 4925,4927 4928–4931 4933 CC BLOCK] IICONDUCTORS 5101 5102	CKSRYB105K10 CCSRCH331J50 CCSRCH680J50 CKSSYB103K16 CKSRYB474K10 CKSSYF104Z16 CKSSYB103K16 DCH1201 CKSSYF104Z16 CKSRYB105K10 UPD64015AGM-UEU EDS1616AGTA-75-E	Other Resistors CAPACITORS C 5301 C 5302 C 5303–5305 C 5307,5313 C 5308–5312,5314–5316 C 5318,5319 [HDMI BLOCK] SEMICONDUCTORS IC 5401 IC 5402 IC 5403,5404 Q 5401,5402 Q 5407,5408 Q 5413,5414	RS1/16S###J CKSSYB823K10 CKSSYB822K16 CKSSYB473K16 CKSSYB104K10 CKSSYF104Z16 CKSSYF104Z16 SII9023CTU PCM1754DBQ BR24L02FJ-W HN1K02FU UMD2N RN1902
C C C C C C C C C C C C C C C C C C C	4901–4903,4922,4932 4904 4905 4906–4910,4912-4915 4911,4935 4916,4923,4924,4926 4917–4921 4925,4927 4928–4931 4933 CC BLOCK] IICONDUCTORS 5101 5102	CKSRYB105K10 CCSRCH331J50 CCSRCH680J50 CKSSYB103K16 CKSRYB474K10 CKSSYF104Z16 CKSSYB103K16 DCH1201 CKSSYF104Z16 CKSRYB105K10 UPD64015AGM-UEU EDS1616AGTA-75-E	CAPACITORS C 5301 C 5302 C 5303–5305 C 5307,5313 C 5308–5312,5314–5316 C 5318,5319 [HDMI BLOCK] SEMICONDUCTORS IC 5401 IC 5402 IC 5403,5404 Q 5401,5402 Q 5407,5408	CKSSYB823K10 CKSSYB822K16 CKSSYB822K16 CKSSYB473K16 CKSSYB104K10 CKSSYF104Z16 CKSSYF104Z16 SII9023CTU PCM1754DBQ BR24L02FJ-W HN1K02FU UMD2N RN1902 1SS301
CAP. CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	4901–4903,4922,4932 4904 4905 4906–4910,4912-4915 4911,4935 4916,4923,4924,4926 4917–4921 4925,4927 4928–4931 4933 CC BLOCK] IICONDUCTORS 5101 5102	CKSRYB105K10 CCSRCH331J50 CCSRCH680J50 CKSSYB103K16 CKSSYB103K16 CKSSYF104Z16 CKSSYB103K16 DCH1201 CKSSYF104Z16 CKSRYB105K10 UPD64015AGM-UEU EDS1616AGTA-75-E TVP5150AM1PBS	Other Resistors CAPACITORS C 5301 C 5302 C 5303–5305 C 5307,5313 C 5308–5312,5314–5316 C 5318,5319 [HDMI BLOCK] SEMICONDUCTORS IC 5401 IC 5402 IC 5403,5404 Q 5401,5402 Q 5407,5408 Q 5413,5414	RS1/16S###J CKSSYB823K10 CKSSYB822K16 CKSSYB473K16 CKSSYB104K10 CKSSYF104Z16 CKSSYF104Z16 SII9023CTU PCM1754DBQ BR24L02FJ-W HN1K02FU UMD2N RN1902

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Mark No. Description	Part No.	Mark No. Description	Part No.
D 5407,5408	UDZS6R8(B)	R 8101–8104,8106–8110	BCN1067
	()	R 8105	BCN1071
MISCELLANEOUS	ALCD4.070	R 8111,8116 R 8112–8115,8117	ACN1246 ACN1251
JA 5401,5402 X 5401	AKP1278 ASS1192	R 8123	RAB4CQ103J
7. 0.0.	7.007.102		
<u>RESISTORS</u>		R 8135 R 8136	RAB4CQ470J RAB4CQ101J
R 5401–5403 R 5413,5429	BCN1071 RS1/10S0R0J	Other Resistors	RS1/16SS###J
R 5450	RAB4CQ473J	0.1.1.0	
R 5451	RAB4CQ100J	<u>CAPACITORS</u>	OKCOVD100KE0
R 5452,5455	RAB4CQ103J	C 8101 C 8112–8115,8117–8120	CKSSYB102K50 CKSSYF104Z16
R 5454	RAB4CQ470J	C 8134–8145	CKSSYF104Z16
Other Resistors	RS1/16SS###J		
CAPACITORS		[MULTI BLOCK]	
C 5401,5402	CCSSCH120J50	SEMICONDUCTORS	
C 5403,5404,5408,5410	CKSSYF104Z16	IC 8201	PEG121B
C 5405,5407,5452,5473	DCH1201	IC 8202	AGC1019
C 5406,5453 C 5412,5414,5416,5418	CCSSCH101J50 CKSSYF104Z16	IC 8203	TC74VHC08FTS1
C 5412,5414,5416,5418	CN351F104Z10	MISCELLANEOUS	
C 5423,5426–5428,5430	CKSSYF104Z16	L 8201–8205	BTX1042
C 5432,5434,5436,5438	CKSSYF104Z16		
C 5440,5442,5444,5445	CKSSYF104Z16	<u>RESISTORS</u>	
C 5447–5451,5455,5457 C 5458,5460,5462,5464	CKSSYF104Z16 CKSSYF104Z16	R 8201–8205	ACN1246
	GROSTI 104210	R 8206–8208,8255 R 8209	ACN1251 RS1/10S0R0J
C 5466,5468,5469,5471	CKSSYF104Z16	R 8214,8215,8248	RAB4CQ103J
C 5472	CKSSYF104Z16	R 8225,8245	BCN1071
		R 8246	BCN1073
[DSEL BLOCK]		R 8249	RAB4CQ680J
<u>SEMICONDUCTORS</u>		Other Resistors	RS1/16SS###J
IC 8001	PD6523A	0.4.04.017.0.00	
IC 8002 IC 8003	TC74LCX125FT TC74VCX574FT	<u>CAPACITORS</u>	OKCOVD100KE0
10 0000	107410707411	C 8202 C 8203–8205	CKSSYB102K50 DCH1201
MISCELLANEOUS		C 8221–8234,8239	CKSSYF104Z16
L 8001–8003	BTX1042		
[']	ATX1058 ASS1194	[IF UCOM BLOCK]	
X 8001	A331194	SEMICONDUCTORS	
RESISTORS		IC 8301	AGC1016
R 8001,8002	ACN1251	IC 8302	PST9230N
R 8003,8008	RAB4CQ680J	IC 8303	TC74VHC08FTS1
R 8004–8006 R 8009–8011	BCN1071 BCN1067	IC 8304 IC 8305,8308	TC7W126FU
R 8026,8027	RAB4CQ101J	10 8305,8308	TC74VHC00FTS1
,		IC 8306	MAX3232CPW
Other Resistors	RS1/16SS###J	IC 8307	TC74VHC125FTS1
CAPACITORS		Q 8301,8315 Q 8302,8307,8312	DTA124EUA 2SA1586
C 8002	CKSSYB102K50	Q 8303,8304,8306,8308	DTC124EUA
C 8003,8005,8014–8020	CKSSYF104Z16		
C 8025,8027	CKSSYF104Z16	Q 8309,8313	2SC4116
C 8026	DCH1201	Q 8310,8314 Q 8311	HN1C01FU 2SJ461A
		D 8301–8305	1SS355
[IP BLOCK]			
SEMICONDUCTORS		<u>MISCELLANEOUS</u>	
IC 8101	PE5504B	X 8301 X 8302	ASS1168 ASS1172
IC 8102,8103	EDS6432AFTA-75-E	CN 8301	ASS1172 AKP1213
MISCELLANEOUS			
L 8101–8104	BTX1042	RESISTORS	
		R 8307	RAB4CQ473J
RESISTORS		R 8348,8351,8352 R 8354,8356,8358	RAB4CQ103J RS1/16S122J
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	PDP-507)	3	4
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<u>Mark</u>	No. Description	Part No.	Mark N	o. De	<u>scription</u>	Part No.	
R	8357	RS1/16S220J	Q 8	825–8829,8832	-	2SC4116	
Oth	ner Resistors	RS1/16SS###J	Q 9	001		HN1B04FU	
				009–9011,9015		2SC4116	
	<u>ACITORS</u>		Q 9	016–9018		2SD2114K	Α
С	8301	CKSSYB472K25	D 9	013		1SS301	
С	8302,8303	CCSSCH220J50		013 014–9016		UDZS5R1(B)	
C	8305,8312 8306–8311,8322,8323	CCSRCH471J50 CKSSYF104Z16	TH 9			TH05-3H103F	
C	8313–8317,8320,8321	CKSSYB104K10					
	,,		MISCE	LLANEOUS	<u> </u>		
С	8319	DCH1201		001–9007		CTF1557	
С	8324	CKSSYB104K10		801–8803		AKP1295	
			JA 9			AKB1332	
TRA A I R	N UCOM BLOCK]		JA 9 JA 9			VKN1449 AKN1081	
	ICONDUCTORS		0A 3	004		ARTIOOT	
	8401	MB91305PMC-G-BND	JA 9	005		AKB1340	В
	8402	AGC1018	CN 8	802,9003		AKM1349	
	8403	PST3628UR	CN 9	002		KM200NA5L	
IC	8407	PQ200WNA1ZPH					
IC	8409	BR24L64F-W	RESIS				
				801,8803–8805,	8807	RS1/10S151J	
	8410,8411	TC74VHC125FTS1		802,8806,8808		RS1/10S121J	
Q	8401	2SJ461A		809,8810 812,8821,8870,8	0077	RS1/10S151J RS1/16S680J	
Q Q	8402 8403,8405	DTC124EUA HN1K02FU		839–8841,8866,		RS1/16S75R0F	
Q D	8401	1SS355	11 0	000-0041,0000,	0094	1131/103/3/101	
D	0401	100000	R 8	885,8893		RS1/16S680J	
D	8402	SML-311UT		898,8915–8917,	8922	RS1/16S75R0F	
D	8403–8405	1SS301	R 9	800		RS1/16S4701F	С
				037,9038,9040		RS1/16S75R0F	
MISC	CELLANEOUS		R 9	046–9048		RS1/16S75R0F	
Χ	8401	CSS1616	Others	Desistan		D04/4000####	
CN	8401	AKM1353	Otner	Resistors		RS1/16SS###J	
DEC	ICTORS		САРАС	CITORS			Ī
	ISTORS	AON4040		801,8806,8812,8	3814	DCH1201	_
R R	8401,8402 8408,8467	ACN1248 RAB4CQ101J		802,8815,8819,9		DCH1165	
R	8454,8455	RS1/16S0R0J		803,8813,8818,9		CKSSYF104Z16	
R	8464	RS1/16S4701F	C 8	804,8805,8810,8	3811	CCG1205	
R	8465	RS1/16S1801F	C 8	816,8817,9007,9	9014	DCH1201	
			C 9	820,8821,9037,9	2045	CCG1205	D
R	8466	RS1/16S1001F		825–8836,8857,		CKSSYB102K50	
R	8484	RS1/16SS5602F		837–8839	0000	ACH1454	
R	8485 ner Resistors	RS1/16SS2002F RS1/16SS###J		840–8848,8850,	8851	CKSRYB105K10	
Otti	iei nesisiois	N31/1033###0	C 8	853-8856,9022,	9025	CKSRYB105K10	
CAP	ACITORS						
C	8402–8405,8408–8413	CCSSCH470J50		002,9039,9040		CKSSYB103K16	
С	8414	CKSSYB102K50		006 008.9009		DCH1165 CKSSYB104K10	
С	8416,8426	CCSSCH120J50		008,9009 010–9012		CKSSYB471K50	
С	8417	CKSSYB472K25		013,9044		CKSSYF104Z16	
С	8418,8443	CKSSYB103K16	•	0.0,00		0.1001.101.210	
0	0404 0400 0405	CCCCC11470 IF0	C 9	017		CEHVKW470M6R3	Е
C	8421–8423,8425 8424,8460	CCSSCH470J50 DCH1165	C 9	023,9026,9031,9	9032	CKSRYB102K50	
C	8427–8434,8436–8442	CKSSYF104Z16		028–9030,9033-	-9035	CKSRYB105K10	
Č	8445–8454,8459	CKSSYF104Z16		038		CKSSYB473K16	
	, , , , , , , , , , , , , , , , , , , ,		C 9	041,9042		CKSRYB105K10	
			C 9	043		CKSRYB224K10	_
				046		CCG1205	
	TANSHI ASSY						
<u>SEM</u>	<u>ICONDUCTORS</u>						
	9001	BH3544F					
Q	8801–8804,9012	HN1A01FU	SI	DE ASSY			
	8805-8808,9019,9020	2SA1586	<u>SEMIC</u>	ONDUCTOR	RS		F
Q Q	8809–8811,9013 8812,8814,8821,8823	UMD2N 2SC4116	Q 9	201–9205		2SC4116	Г
Q	0012,0014,0021,0023	2004110		201–9207		UDZS9R1(B)	
Q	8813	HN1C01FU	D 9	208,9209		UDZS5R6(B)	
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_	-		DP-507XD	7		2	_
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	Mark No. Description	n Part No.	Mark No.	Description	Part No.
	•		C 3754,3805	•	CFTLA103J50
	MISCELLANEOUS		C 3755		CEHAT472M25
	JA 9201	AKB1303	C 3757		CEHAT471M25
Α	JA 9202	AKP1238	C 3758,3760,3	3796	CKSRYB103K50
	CN 9201 9203,9204	AKN1028 VNE1949	C 3759		CEHAT331M16
	9203,9204	VINE 1949	C 3761,3764,3	786,3798	CEHAT101M16
	RESISTORS		C 3762		CEHAT220M50
	R 9245,9246	ACN1260	C 3763		CEHATR47M50
	Other Resistors	RS1/16SS###J	C 3766,3780,3	3783–3785	CEHAT1R0M50
			C 3767,3770,3	781.3782	CFTLA104J50
	CAPACITORS	40114454	C 3769,3815		CKSRYB222K50
	C 9201,9202 C 9204,9208,9209	ACH1454 CKSSYF104Z16	C 3771–3774,		CKSRYB224K16
	C 9213,9214	CKSRYB105K10	C 3775,3777,3 C 3778	788,3790	CEHAT100M50
В	C 9215,9216	CKSRYB102K50	C 3778		CFTLA334J50
			C 3779		CKSRYB822K50
			C 3791,3799		CEHAT100M50
	PC ASSY		C 3792–3795,		CFTLA104J50
			C 3797,3808,3 C 3800.3801	812,3814	CEHAT1R0M50
	SEMICONDUCTORS IC 9301	TC74VHC08FTS1	C 3800,3801		CKSRYB224K16
	IC 9301	TC74VHC08F131	C 3811		CFTLA223J50
	IC 9303	BR24C21FJ	C 3813		CFTLA104J50
	Q 9301	UMD2N	C 3816,3817		ACH1456
	D 9301,9302	1SS301	C 3818–3821 C 3822–3825		CCSRCH221J50 CKSRYB682K50
	D 9306-9309	UDZS5R6(B)	0 3022-3023		OROTT BOOZROO
С	D 9500-9509	0D233110(B)	C 3826–3829		CKSRYF104Z50
	MISCELLANEOUS		⚠ C 3831,3833,3	835,3837	CCSRCH101J5
	CN 9301	CKS3826	C 3838,3839		CEHAT4R7M50
	CN 9303	AKP1214			
	9302	VNE1949			
	RESISTORS		SPTERM	MINAL ASSY	
_	R 9330	RAB4CQ101J	MISCELLANEO	ous	
	Other Resistors	RS1/16SS###J	⚠ F 3901,3902		ATF122
			JA 3901		AKE1061
	CAPACITORS	0000011000100	RESISTORS		
D	C 9304,9305 C 9306	CCSRCH220J50 CKSRYB105K10	All Resistors		RS1/16S###
D	C 9307,9315,9316	DCH1201	ZAII I ICSISIOIS		1101/100###
	C 9308,9313,9314,9317	CKSSYF104Z16	CAPACITORS		
			C 3903,3911,3		CKSRYB682K50
			C 3904,3912,3		CKSRYF104Z50
	AUDIO ASSY		∴C 3905,3907,3 ∴C 3921–3924	913,3915	CCSRCH221J5 CCSRCH221J5
	SEMICONDUCTORS		2.50 3921-3924		003H01122133
	IC 3751	LA4625			
	IC 3752	PQ120DNA1ZPH	<u> </u>		
	IC 3753	NJW1183GK1	SIDE KE	Y ASSY	
	Q 3751,3754,3755,3757	2SA1586	MISCELLANE	<u>ous</u>	
Е	Q 3756,3759	2SC4116	⚠L 9501–9504		QTL101
	Q 3758,3760	DTC124EUA	S 9501–9507		CSG1155
	D 3751	1SS355	RESISTORS		
			All Resistors		RS1/16S###J
	MISCELLANEOUS				
	KN 3751,3752 CN 3751	VNF1084 B3P-VH	<u>CAPACITORS</u>		
	3772,3773	PMB30P100FNI	C 9501		CKSRYF104Z16
	3774,3775	VBB30P100FNI	C 9502,9503		CCSRCH101J50
	•				
	RESISTORS				
F	R 3803	RD1/2MMF2R2J	50 LED A	ASSY	
•	Other Resistors	RS1/16S###J	SEMICONDUC		
	CAPACITORS		D 9651		TLRV1022
	C 3752,3753	CEHAT2R2M50	D 9652		SML512BC4T
	38		507XD		
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	5	6	7	8	
Mark No.	Description	Part No.	Mark No. Description	Part No.	
			D1731, 1741, 1751, 1761	UDZS15(B)	
RESISTOR	<u>S</u>		D1734, 1744, 1754, 1764	EP05FA20	
All Resistors	3	RS1/16S###J	D1736, 1738, 1746, 1748	1SS355	
CADACITO	DC		D1756, 1758, 1766, 1768	1SS355	Α
CAPACITO C 9651,96		CKSSYF103Z50	D1767, 1777, 1787	1SS302	
C 9651,90	002	CNSS1F103Z50	D1771, 1781	UDZS15(B)	
			D1774, 1784	EP05FA20	
			D1776, 1778, 1786, 1788	1SS355	
LED I	R ASSY		MISCELLANEOUS		
SEMICONE	DUCTORS		L1730, 1740, 1750, 1760	ATH1199	
IC 9702		SBX3050-01	L1770, 1780ATH1199	71111100	
Q 9701		2SA1586	-,		
D 9701		1SS302	<u>RESISTORS</u>		
D 9703		SML-521MDW	R1710, 1711	RS1/16SS220J	В
MISCELLA	NEOUS		Other Resistors	RS1/16S###J	
CN 9701		AKP1303	<u>CAPACITORS</u>		
			C1710	CKSYB105K25	
RESISTOR			C1711	ACG1098	
	702,9707,9712	RS1/16S0R0J	C1730, 1740, 1750, 1760	ACG1137	
R 9713		RS1/16S121J	C1731, 1741, 1751, 1761	ACG1136	
R 9714 Other Resist	tore	RS1/16S331J RS1/16SS###J	C1770, 1780	ACG1137	
Outer nesisi	1013	1101/1000###J	C1771, 1781	ACG1136	
CAPACITO	RS		51771, 1701	73001100	
C 9701		CKSSYB102K50			
C 9702		CKSSYF104Z16			С
C 9703		ACG7046	50 ADDRESS S ASSY		
C 9704 C 9705		CKSSYF103Z50 CKSRYF103Z50	[50 ADR S LOGIC]		
0 9703		ONSHIT 103230	SEMICONDUCTORS		
			IC1801	PEE003B	
			MISCELLANEOUS		
	DRESS L ASSY		L1801	QTL1013	
[50 ADR L L			CN1801	AKM1290	
SEMICONE	DUCTORS		CN1802	AKM1348	
IC1601		PEE003B			
MISCELLA	NEOUS		RESISTORS		
L1601	NEOUS	QTL1013	R1801–1805	RS1/16SS1000F	D
CN1601		AKM1290	Other Resistors	RS1/16SS###J	
CN1602		AKM1348	CAPACITORS		
			C1801–1804, 1807	CKSSYF104Z16	
RESISTOR	<u>S</u>		C1805, 1806	CKSSYB102K50	
R1601–1605		RS1/16SS1000F	C1808, 1809	CKSRYB105K6R3	
Other Resist	tors	RS1/16SS###J	C1851–1855	ACG1105	_
CAPACITO	RS		C1857–1861	CKSSYF104Z16	
C1601-1604		CKSSYF104Z16	C1864	CCSSCH390J50	
C1605, 1606		CKSSYB102K50	C1866	CCSSCH101J50	
C1608, 1609	9	CKSRYB105K6R3			_
C1651-1656		ACG1105			E
C1657–1662	2	CKSSYF104Z16	[50 ADR S RESONANCE]		
C1664, 1666	6 1668	CCSSCH390J50	<u>SEMICONDUCTORS</u>	TNIDOOTTD	
01004, 1000	0, 1000	0000011030030	IC1920	TND307TD	
			Q1910, 1911 Q1931, 1941, 1951, 1961	QSZ2 HAT3041R	
[50 ADR L R	ESONANCE]		Q1971	HAT3041R	
SEMICONE	DUCTORS		Q1990	2SA1163	
IC1720T		ND307TD	04004	DNI406	
Q1710, 171		QSZ2	Q1991	RN1901	
Q1731, 174 ⁻ Q1771, 178 ⁻	1, 1751, 1761 1	HAT3041R HAT3041R	D1910, 1937, 1947, 1957 D1931, 1941, 1951, 1961	1SS302 UDZS15(B)	
Q1771, 178 Q1790	1	2SA1163	D1931, 1941, 1951, 1961 D1934, 1944, 1954, 1964	EP05FA20	_
<u></u>		20	D1936, 1938, 1946, 19481	SS355	F
Q1791		RN1901	, ,		
D1710, 1737	7, 1747, 1757	1SS302	D1956, 1958, 1966, 1968	1SS355	
					39
_	-		PDP-507XD	•	55
ı	5	6	7	8	

2 3 4 1 **Description** Part No. **Description** Part No. Mark No. Mark No. 1SS302 D1967, 1977 RESISTORS D1971 UDZS15(B) R2903, 2908, 2911, 2914 RAB4C221J D1974 EP05FA20 R2917, 2920 RAB4C221J D1976, 1978 1SS355 RS1/16S###J Other Resistors **MISCELLANEOUS CAPACITORS** L1930, 1940, 1950, 1960 ATH1199 C2901, 2902, 2911, 2912 ACG1088 L1970 ATH1199 CKSRYB105K6R3 C2903, 2913, 2923, 2933 C2905-2907, 2915-2917 CCSRCH220J50 **RESISTORS** CCSRCH151J50 C2908-2910, 2918-2920 R1910, 1911 RS1/16SS220J C2921, 2922, 2931, 2932 ACG1088 Other Resistors RS1/16S###J C2925-2927, 2935-2937 CCSRCH220J50 **CAPACITORS** C2928-2930, 2938-2940 CCSRCH151J50 C2941, 2942, 2951, 2952 ACG1088 C1910 CKSYB105K25 C2943, 2953, 2961 CKSRYB105K6R3 C1911 ACG1098 C2945-2947, 2955-2957 CCSRCH220J50 C1930, 1940, 1950, 1960 ACG1137 C1931, 1941, 1951, 1961 ACG1136 C2948-2950, 2958-2960 CCSRCH151J50 C1970 ACG1137 C1971 ACG1136 **POWER SUPPLY UNIT** POWER SUPPLY UNIT has no service part. **50 SCAN A ASSY SEMICONDUCTORS** SN755870KPZT-P IC2801-2806 D2801 CRH01 D2802-2807, 2809, 2811 1SS302

С D2810 1SS355

MISCELLANEOUS

CN2801 AKP1261 CN2802 AKM1281 AKP1306 CN2803

RESISTORS

Α

В

R2805, 2810, 2813, 2816 RAB4C221J RAB4C221J R2819, 2822 Other Resistors RS1/16S###J

CAPACITORS

D

Ε

C2801, 2802, 2811, 2812 ACG1088 C2803, 2813, 2823, 2833 CKSRYB105K6R3 C2805-2807, 2815-2817 CCSRCH220J50 C2808-2810, 2818-2820 CCSRCH151J50 C2821, 2822, 2831, 2832 ACG1088

CCSRCH220J50 C2825-2827, 2835-2837 C2828-2830, 2838-2840 CCSRCH151J50 C2841, 2842, 2851, 2852 ACG1088

C2843, 2853 CKSRYB105K6R3 C2845-2847, 2855-2857 CCSRCH220J50

C2848-2850, 2858-2860 CCSRCH151J50

50 SCAN B ASSY

SEMICONDUCTORS

IC2901-2906 SN755870KPZT-P IC2907 TC7SH08FUS1 D2902-2908 1SS302 D2909 1SS355

MISCELLANEOUS

40

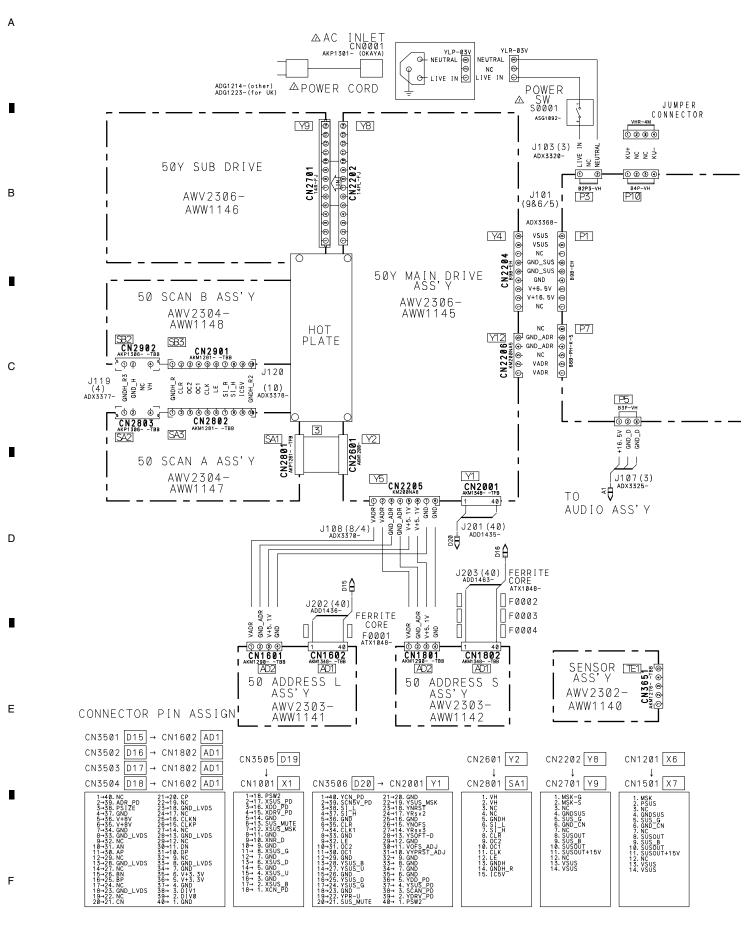
CN2901 AKM1281 CN2902 AKP1306

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5 В С D Ε 41 PDP-507XD 5 8

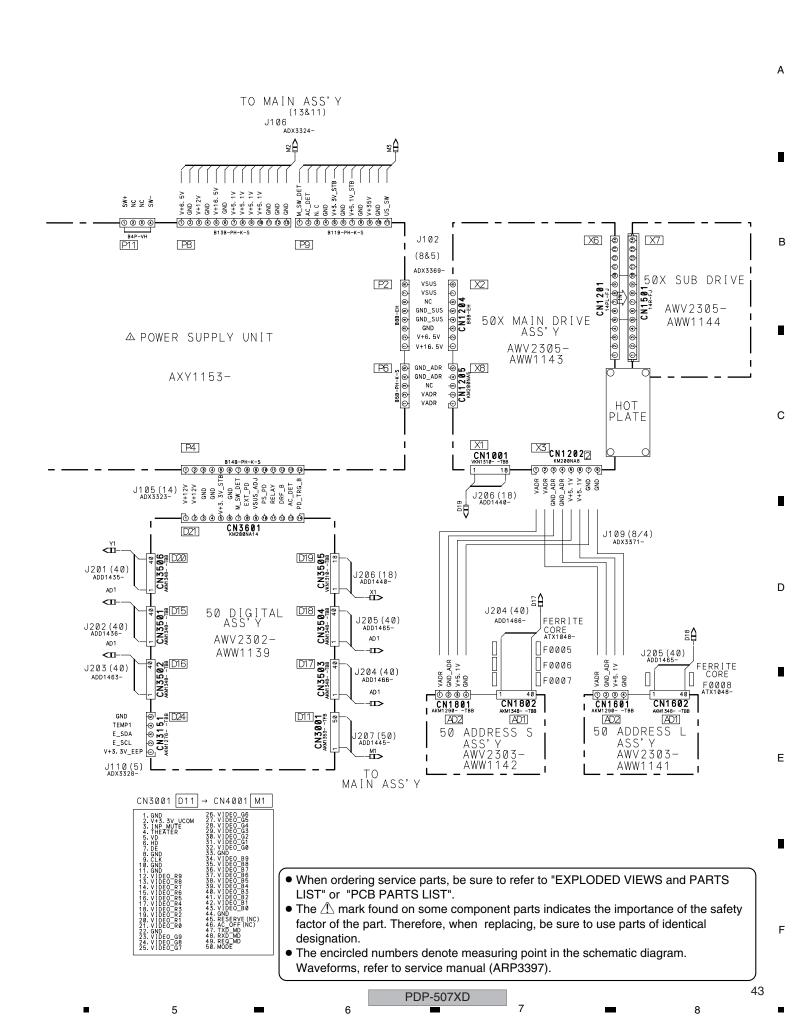
4. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

4.1 OVERALL CONNECTION DIAGRAM (1/2)



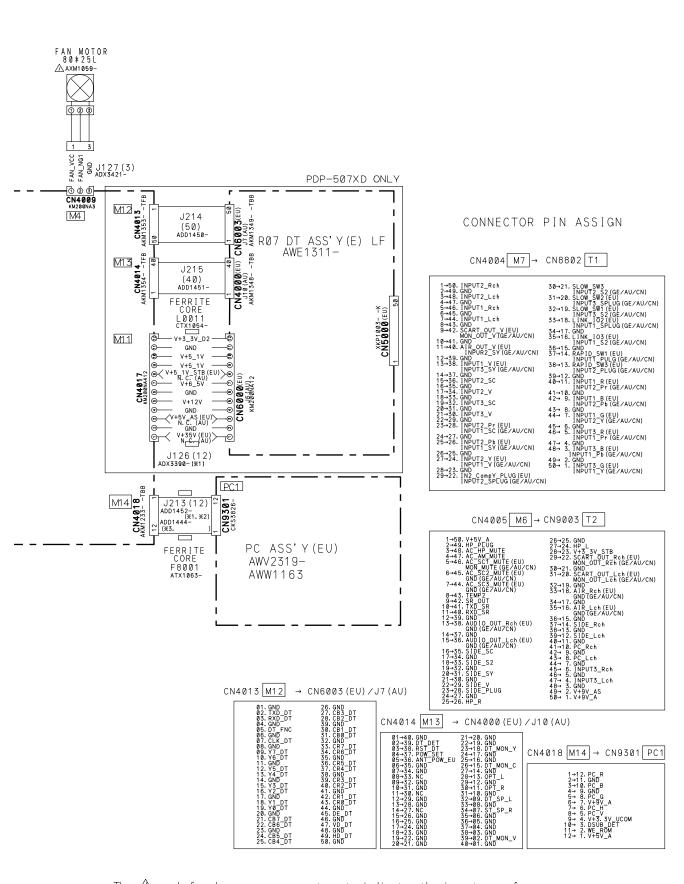
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PDP-507XD



The \bigwedge mark found on some component parts indicates the importance of the safety factor of the part.
Terefore, when replacing, be sure to use parts of identical designation.

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PDP-507XD

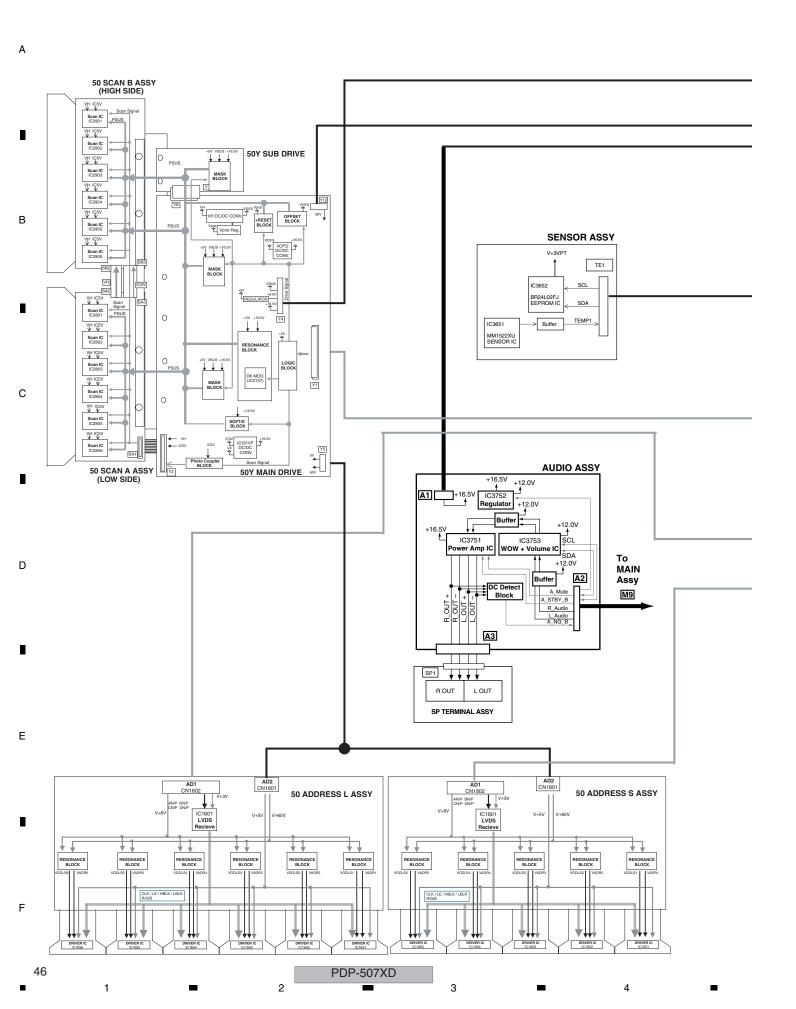
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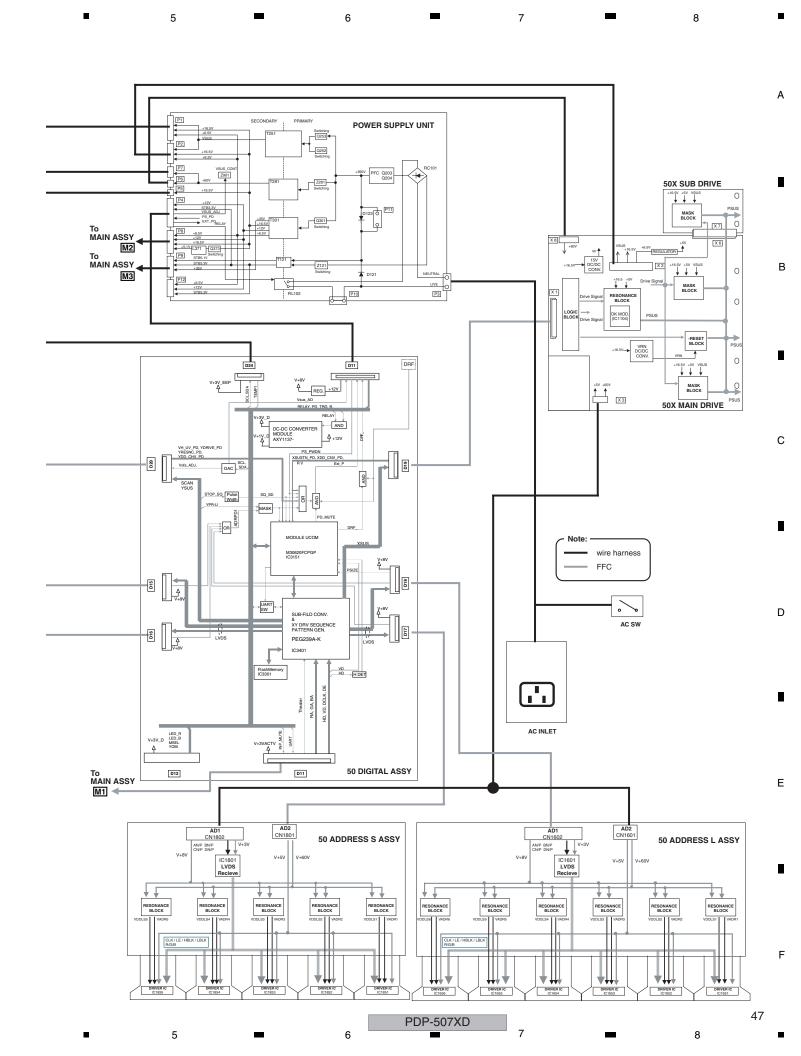
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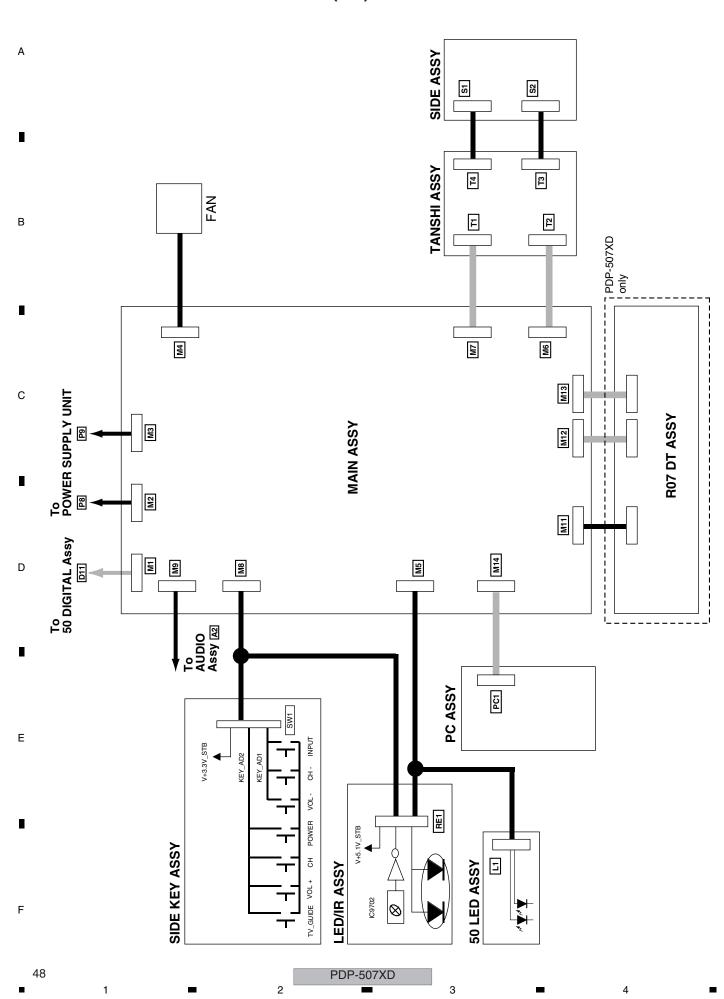
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4.4 OVERALL BLOCK DIAGRAM (2/2)



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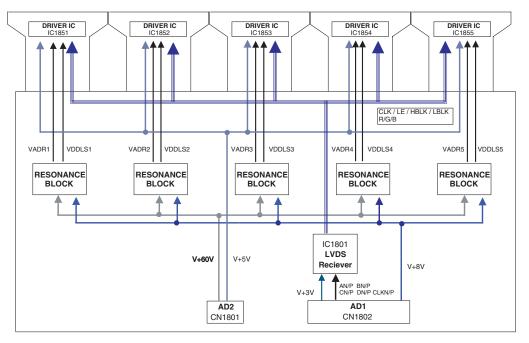
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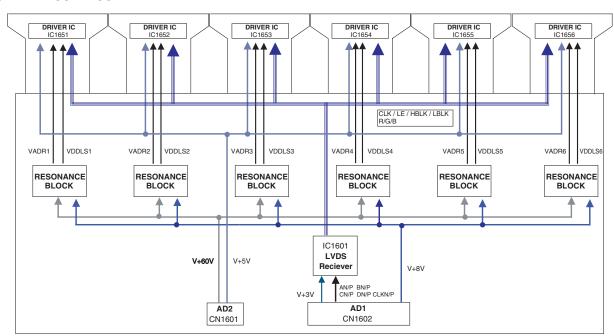
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50 ADDRESS S ASS'Y



50 ADDRESS L ASS'Y

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PDP-507XD

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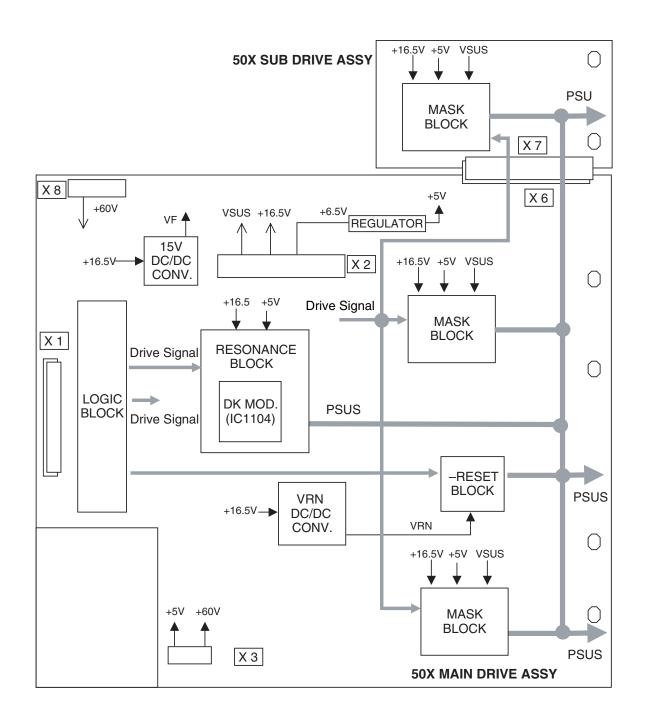


(LOW SIDE)

50 SCAN A ASSY

50 SCAN B ASSY (HIGH SIDE) VH IC5V Scan Signal Scan IC PSUS IC2901 VH IC5V Scan IC IC2902 VH IC5V VV Scan IC IC2903 VH IC5V Scan IC IC2904 VH IC5V ψ ψ Scan IC IC2905 VH IC5V Scan IC IC2906 SB3 SB2 VH IC5V SA2 VH IC5V Scan Signal SA3 ψ ψ Scan IC **PSUS** IC2801 VH IC5V Scan IC IC2802 VH IC5V ψ ψ Scan IC IC2803 VH IC5V Scan IC IC2804 VH IC5V ψ ψ Scan IC IC2805 VH IC5V Scan Signal Scan IC _ VH IC2806 - IC5V SA1

4.7 50X MAIN DRIVE and 50X SUB DRIVE ASSYS



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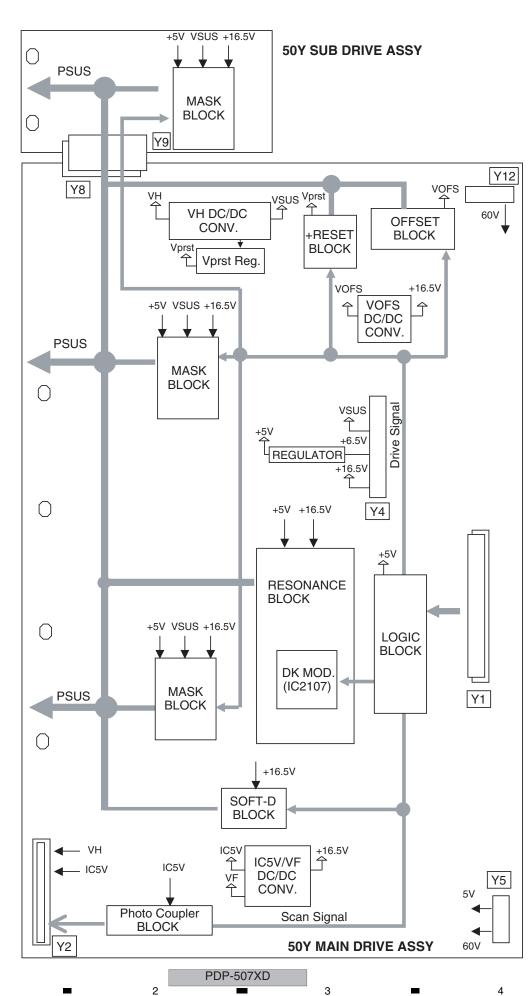
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PDP-507XD

4.8 50Y MAIN DRIVE and 50Y SUB DRIVE ASSYS



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В

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PDP-507XD

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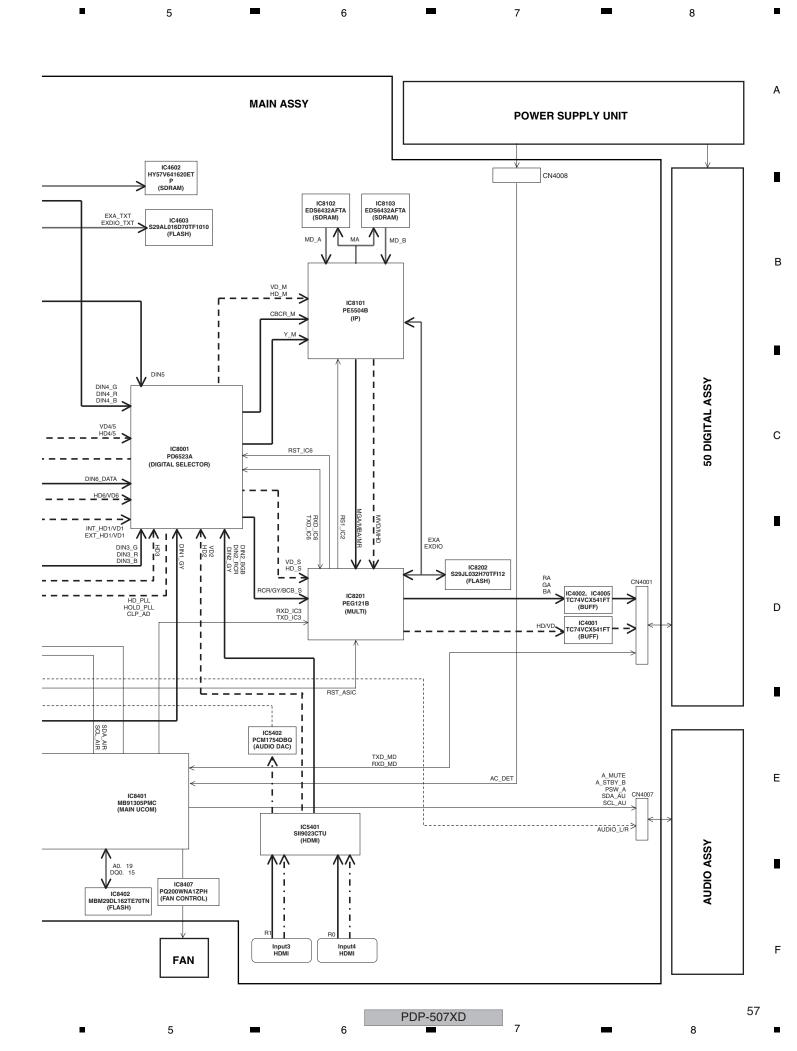
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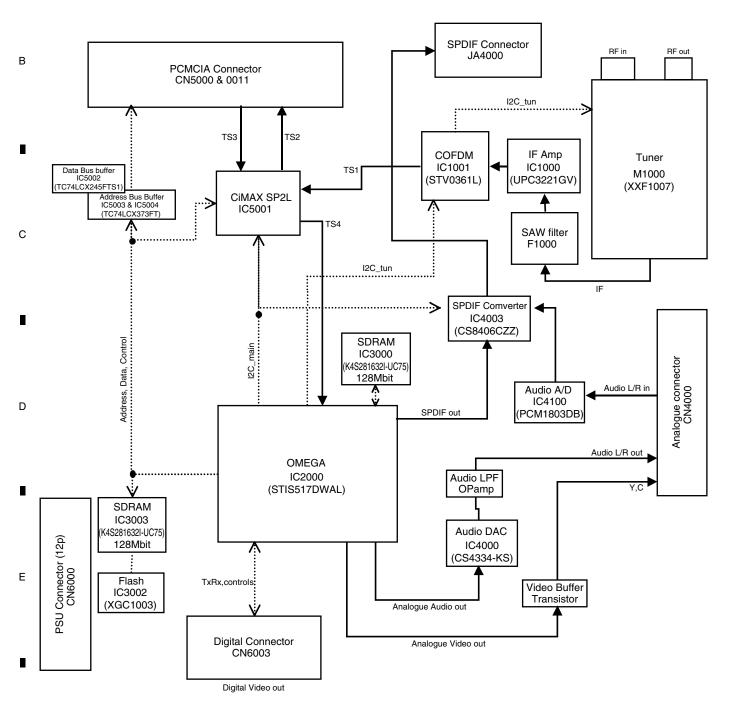
С 55 PDP-507XD 5 8

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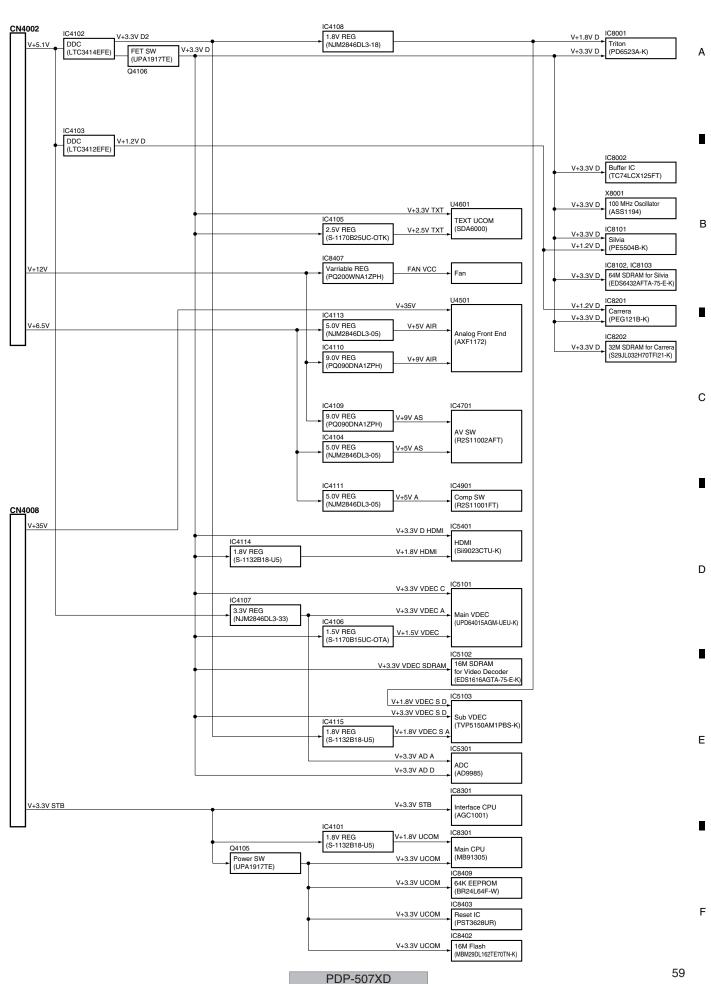
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4.13 MAIN ASSY POWER LINE BLOCK DIAGRAM



DC/DC Conv.

50Y Main Drive Assy

Pre drive Pre drive Pre drive SUS-E FET В Pre drive SUS-Pre drive MSK MSK FET FET 50Y Sub Drive Assy 50X Sub Drive Assy ▲ to 50 Address Assy ▲ to 50 Address Assy Logic DK 15V DK DC/DC Conv. Mod. Mod. drive drive Pre drive SUS-G FET SUS-G 6.5V from P Suply 6.5V from P Suply 5V 16.5V Pre drive 16.5V SUS-B FET FET vsus vsus Pre drive SUS-SUS-MSK MSK VOFS VRN FET FET DC/DC Conv DC/DC Conv D Ofset & N Reset 15V DC/DC Conv. IC5V Reset IC5V DC/DC Conv. VPRST 50X Main Drive Assy Reg.

* VOFS DC/DC converter and VPRST regulator are controled by electric volume.

VOFS DC/DC converter and VRN DC/DC converter are generated from 16.5 v, but they do not operate when Vsus is under 100V.

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Scan

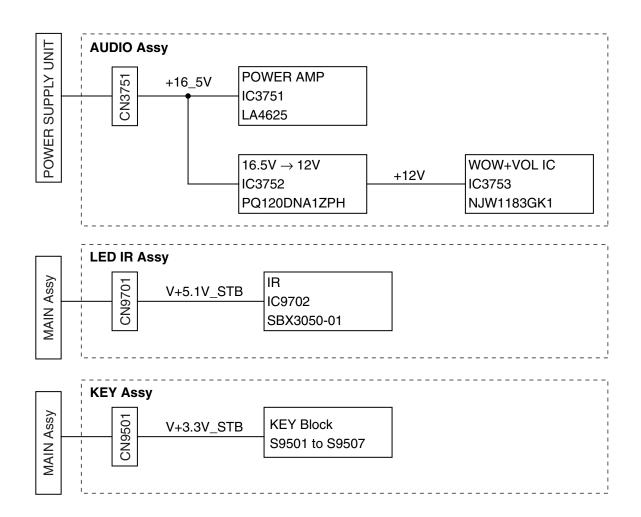
50 Scan A/B Assy

Scan IC

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PDP-507XD

4.15 FUKUGO BLOCK POWER LINE BLOCK DIAGRAM



61

В

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В

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P3 LIVE RC101 NEUTRAL POWER SUPPLY UNIT P11 Q203 Q204 PFC \circ D121 D123 +390V P10 Z121 Switching Switching Q253 -Q252 Switching -Q301 Switching Z281 Switching **PRIMARY** RL102 9 T121 _T301 T281 T251 SECONDARY +35V +16.5V +12V +6.5V VSUS_CONT Z901 STB3.3V
VSUS_ADU
PS_PD
EXT_PD
PD_TRG_B Switching HQ373 +16.5V +16.5V +16.5V VSUS +6.5V +12V +6.5V STB5.1V STB3.3V STB3.3V +16.5V L371 +6.5V +35V +6.5V +12V +5.1V P12 P2 P4 P8 P9 P7 P6 P5 P1

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PDP-507XD

[Voltage of the Drive Connector]

50\	/ MAIN DRIVE AS	PO	WER SUPPLY U	JN	
Υ4	CN2204(B9B-EH)	Voltage		P1 (B9B-EH)	
No.	Name	(V)	No.	Name	
1	VSUS	205	1	VSUS	
2	VSUS	205	2	VSUS	
3	NC	-	3	NC	
4	GND_SUS	0	4	GND_SUS	
5	GND_SUS	0	5	GND_SUS	
6	GND	0	6	GND	
7	V+6.5V	5	7	V+6.5V	
8	V+16.5V	16.5	8	V+16.5V	
_	NC		_	N.O	ı

50	Y MAIN DRIVE A	ASSY	50	SCAN A ASSY
Y2	CN2601(AKM1200-)	Voltage	S	A1 CN2801(AKM1261TFB)
No.	Name	(V)	No.	Name
1	VΗ	GNDH+130	1	V H
2	V H	GNDH+130	2	V H
3	NC	-	3	NC
4	NC	-	4	NC
5	GNDH	-60 to 350	5	GNDH
6	SI L	-60 to 350	6	SI_L
7	SI H	-60 to 350	7	SI_H
8	CLR	-60 to 350	8	CLR
9	OC2	-60 to 350	9	OC2
10	OC1	-60 to 350	10	OC1
11	CLK	-60 to 350	11	CLK
12	LE	-60 to 350	12	LE
13	GNDH	-60 to 350	13	GNDH
14	GNDH R	-60 to 350	14	GNDH_R
15	IC5V	-60 to 350	15	IC5V

50Y MAIN DRIVE ASSY	PO	OWER SUPPLY UNIT	
144.5 (214.5.5.5.4.4.5.5.4.4.5.5.4.4.5.4.5.4.5.4	17.11	D= (D0D D111(0)	

Y12	CN2206(KM200NA5)	Voltage	Р	7 (B6B-PH-K-S)
No.	Name	(V)	No.	Name
1	VADR	60	1	VADR
2	VADR	60	2	VADR
3	NC	-	3	NC
4	GND_ADR	0	4	GND_ADR
5	GND_ADR	0	5	GND_ADR
			6	NC

50Y SUB DRIVE ASSY				50Y MAIN DRIVE ASSY			
Y9 (CN2701(14R-FJ)	Voltage	Y8	8 CN2202(14PL-FJ)			
No.	Name	(V)	No.	Name			
1	MSK-G	-60 to 205	1	MSK-G			
2	MSK-S	-60 to 205	2	MSK-S			
3	NC	-	3	NC			
4	GND_SUS	0	4	GND_SUS			
5	SUS_G	0	5	SUS_G			
6	GND_CN	0	6	GND_CN			
7	NC	-	7	NC			
8	SUSOUT	0 to 205	8	SUSOUT			
9	SUS_B	0 to 205	9	SUS_B			
10	SUSOUT	0 to 205	10	SUSOUT			
11	SUSOUT+15V	0 to 205	11	SUSOUT+15V			
12	NC	-	12	NC			
13	VSUS	205	13	VSUS			
14	VSUS	205	14	VSUS			

50X MAIN DRIVE ASSY POWER SUPPLY UNIT

>	(2	CN1204(B8B-EH)	Voltage		P2 (B8B-EH)
Ν	Ю.	Name	(V)	No.	Name
П	1	VSUS	205	1	VSUS
	2	VSUS	205	2	VSUS
	3	NC	-	3	NC
	4	GND_SUS	0	4	GND_SUS
	5	GND_SUS	0	5	GND_SUS
	6	GND	0	6	GND
	7	V+6.5V	5	7	V+6.5V
	8	V+16.5V	16.5	8	V+16.5V

50X MAIN DRIVE ASSY			50)	SUB DRIVE ASSY
X6	CN1201(14PL-FJ)	Voltage	X7	CN1501(14R-FJ)
No.	Name	(V)	No.	Name
1	MSK	-180 to 205	1	MSK
2	PSUS	-180 to 205	2	PSUS
3	NC		2	NC

50X MAIN DRIVE ASSY				РО	WER SUPPLY U	JNIT
	X8	CN1205(KM200NA5)	Voltage	F	P6 (B5B-PH-K-S)	
	No.	Name	(V)	No.	Name	
	1	VADR	60	1	VADR	
	2	VADR	60	2	VADR	
	3	NC	-	3	NC	
	4	GND_ADR	0	4	GND_ADR	
	5	GND_ADR	0	5	GND_ADR	

No.	Name	(V)	No.	Name
1	MSK	-180 to 205	1	MSK
2	PSUS	-180 to 205	2	PSUS
3	NC	-	3	NC
4	GND_SUS	0	4	GND_SUS
5	SUS_G	0	5	SUS_G
6	GND_CN	0	6	GND_CN
7	NC	-	7	NC
8	SUSOUT	0 to 205	8	SUSOU
9	SUS_B	0 to 205	9	SUS_B
10	SUSOUT	0 to 205	10	SUSOUT
11	SUSOUT+15V	0 to 205	11	SUSOUT+15V
12	NC	-	12	NC
13	VSUS	205	13	VSUS
14	VSUS	205	14	VSUS

50Y MAIN DRIVE ASSY 50 ADDRESS L ASSY 50 ADDRESS S ASSY

		• .				
Y5	CN2205(KM200NA8)	Voltage	AD1	CN1601(AKM1290TBB)	AD1	CN1801(AKM1290TBB)
No.	Name	(V)	No.	Name	No.	Name
1	VADR	60	1	VADR		
2	VADR	60			1	VADR
3	GND_ADR	0	2	GND_ADR		
4	GND_ADR	0			2	GND_ADR
5	V+5.1V	5	3	V+5.1V		_
6	V+5.1V	5			3	V+5.1V
7	GND	0	4	GND		
8	GND	0			4	GND

EUX MAINI DDIVE ACCA	EU YDDDEGG G YGGV	EU YDDDEGG I YGGV

ХЗ	CN1202(KM200NA8)	Voltage	AD1	CN1801(AKM1290TBB)	AD1	CN1601(AKM1290TBB)
No.	Name	(V)	No.	Name	No.	Name
1	VADR	60	1	VADR		
2	VADR	60			1	VADR
3	GND_ADR	0	2	GND_ADR		
4	GND_ADR	0			2	GND_ADR
5	V+5.1V	5	3	V+5.1V		
6	V+5.1V	5			3	V+5.1V
7	GND	0	4	GND		
8	GND	0			4	GND

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1 2 3 4

50 DIG	GITAL Assy		MAIN Assy	
CN	3001 (AKM1353)	Voltage	CN4001 (AKM13	49)
No.	Pin Name	(V)	Pin Name	No.
1	GND	0	GND	1
2	V_3.3V_UCOM	3.3	V_3.3V_UCOM	2
3	INP_MUTE	0	INP_MUTE	3
4	THEATER	0	THEATER	4
5	VD	0/3.3	VD	5
6	HD	0/3.3	HD	6
7	DE	0/3.3	DE	7
8	GND	0	GND	8
9	CLK	0/3.3	CLK	9
10	GND	0	GND	10
11	GND	0	GND	11
12	VIDEO_R9	0	VIDEO_R9	12
13	VIDEO R8	0	VIDEO R8	13
14	VIDEO R7	0	VIDEO R7	14
15	VIDEO R6	0	VIDEO_R6	15
16	VIDEO_R5	0	VIDEO R5	16
17	VIDEO R4	0	VIDEO R4	17
18	VIDEO_R3	0	VIDEO_R3	18
19	VIDEO_R2	0	VIDEO_NO	19
20	VIDEO_R1	0	VIDEO_R1	20
21	VIDEO_R0	0	VIDEO_R1	21
22	GND	0	GND	22
23	VIDEO G9	0	VIDEO G9	23
24	VIDEO_G8	0	VIDEO_G8	24
25	VIDEO_G7	0	VIDEO_G8	+
26	VIDEO_G/	0	VIDEO_G/	25
			_	26
27	VIDEO_G5	0	VIDEO_G5	27
28	VIDEO_G4	0	VIDEO_G4	28
29	VIDEO_G3	0	VIDEO_G3	29
30	VIDEO_G2	0	VIDEO_G2	30
31	VIDEO_G1	0	VIDEO_G1	31
32	VIDEO_G0	0	VIDEO_G0	32
33	GND	0	GND	33
34	VIDEO_B9	0	VIDEO_B9	34
35	VIDEO_B8	0	VIDEO_B8	35
36	VIDEO_B7	0	VIDEO_B7	36
37	VIDEO_B6	0	VIDEO_B6	37
38	VIDEO_B5	0	VIDEO_B5	38
39	VIDEO_B4	0	VIDEO_B4	39
40	VIDEO_B3	0	VIDEO_B3	40
41	VIDEO_B2	0	VIDEO_B2	41
42	VIDEO_B1	0	VIDEO_B1	42
43	VIDEO_B0	0	VIDEO_B0	43
44	GND	0	GND	44
45	Reserve	0	Reserve	45
46	AC_OFF	0	AC_OFF	46
47	TXD_MD	3.3	TXD_MD	47
48	RXD_MD	3.3	RXD_MD	48
49	REQ_MD	0	REQ_MD	49
50	MODE	0	MODE	50

	HI Assy		MAIN Assy		
CN	8802 (AKM1349)	Voltage	CN4004 (AKM1349)		
No.	Pin Name	(V)	Pin Name	No.	
1	Input3_G	2.4	Input3_G	50	
2	GND	0	GND	49	
3	Input3_B	2.4	Input3_B	48	
4	GND	0	GND	47	
5	Input3_R	2.4	Input3_R	46	
6	GND	0	GND	45	
7	Input1_G	2.4	Input1_G	44	
8	GND	0	GND	43	
9	Input1_B	2.4	Input1_B	42	
10	GND	0	GND	41	
11	Input1_R	2.4	Input1_R	40	
12	GND	0	GND	39	
13	RAPID SW3	0	RAPID SW3	38	
14	RAPID_SW1	0	RAPID_SW3	37	
	GND	0		-	
15			GND	36	
16	LINK_IO3	4.9	LINK_IO3	35	
17	GND	0	GND	34	
18	LINK_IO2	4.9	LINK_IO2	33	
19	SLOW_SW1	0	SLOW_SW1	32	
20	SLOW_SW2	0	SLOW_SW2	31	
21	SLOW_SW3	0	SLOW_SW3	30	
22	IN2_CompY_PLUG	0	IN2_CompY_PLUG	29	
23	GND	0	GND	28	
24	Input2_Y	2.4	Input2_Y	27	
25	GND	0	GND	26	
26	Input2_Pb	2.4	Input2_Pb	25	
27	GND	0	GND	24	
28	Input2_Pr	2.4	Input2_Pr	23	
29	GND	0	GND	22	
30	Input3_V	0	Input3_V	21	
31	GND	0	GND	20	
32	Input3_SC	2.2	Input3_SC	19	
33	GND	0	GND	18	
34	Input2_V	0	Input2_V	17	
35	GND	0	GND	16	
36	Input2_SC	2.2	Input2 SC	15	
37	GND	0	GND	14	
38	Input1_V	2.6	Input1_V	13	
39	GND	0	GND	12	
40	AIR_OUT_V	3.4	AIR_OUT_V	11	
41	GND	0	GND	10	
				_	
42	SCART_OUT_V	3.6	SCART_OUT_V	9	
43	GND	0	GND	8	
44	Input1_Lch	4.5	Input1_Lch	7	
45	GND	0	GND	6	
46	Input1_Rch	4.5	Input1_Rch	5	
47	GND	0	GND	4	
48	Input2_Lch	4.5	Input2_Lch	3	
49	GND	0	GND	2	
50	Input2_Rch	4.5	Input2_Rch	1	

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TANSHI Assy MAIN Assy

No. 1 2 3 4	9003 (AKM1349) Pin Name V+9V A	Voltage (V)	CN4005 (AKM13 Pin Name	
1 2 3		(V)	Pin Name	NI-
2	V+9V A		i ili ivallic	No.
3		9.1	V+9V_A	50
	V+9V_AS	9	V+9V_AS	49
4	GND	0	GND	48
	INPUT3_Lch	4.5	INPUT3_Lch	47
5	GND	0	GND	46
6	INPUT3_Rch	4.5	INPUT3_Rch	45
7	GND	0	GND	44
8	PC_Lch	4.5	PC_Lch	43
9	GND	0	GND	42
10	PC Rch	4.5	PC_Rch	41
11	GND	0	GND	40
12	SIDE_Lch	4.5	SIDE_Lch	39
13	GND	0	GND	38
14	SIDE Rch	4.5	SIDE Rch	37
15	GND	0	GND	36
16	AIR_Lch	3.8	AIR_Lch	35
17	GND	0	GND	34
18	AIR Rch	3.8	AIR Rch	33
19	GND		GND	32
	SCART_OUT_Lch	0 4.5		
			SCART_OUT_Lch	31
21	GND	0	GND	30
	SCART_OUT_Rch	4.5	SCART_OUT_Rch	29
23	V+3_3V_STB	3.3	V+3_3V_STB	28
24	HP_L	4.5	HP_L	27
25	GND	0	GND	26
26	HP_R	4.5	HP_R	25
27	GND	0	GND	24
28	SIDE_PLUG	4.9	SIDE_PLUG	23
29	SIDE_V	2.5	SIDE_V	22
30	GND	0	GND	21
31	SIDE_SY	2.5	SIDE_SY	20
32	GND	0	GND	19
33	SIDE_S2	0.2	SIDE_S2	18
34	GND	0	GND	17
35	SIDE_SC	0	SIDE_SC	16
36	GND	0	GND	15
37	AUDIO_OUT_Lch	4.6	AUDIO_OUT_Lch	14
38	GND	0	GND	13
39	AUDIO_OUT_Rch	4.6	AUDIO_OUT_Rch	12
40	GND	0	GND	11
41	RXD_SR	3.2	RXD_SR	10
42	TXD_SR	3.2	TXD_SR	9
43	SR_OUT	5.0	SR_OUT	8
44	AC_SC3_MUTE	0	AC_SC3_MUTE	7
45	AC_SC2_MUTE	0	AC_SC2_MUTE	6
46	AC_SC1_MUTE	0	AC_SC1_MUTE	5
47	AC_AM_MUTE	0	AC_AM_MUTE	4
48	AC_HP_MUTE	0	AC_HP_MUTE	3
49	HP_PLUG	2.9	HP_PLUG	2
50	V+5V A	5.0	V+5V_A	1

R07 DT Assy	MAIN Assy

CN6003 (AKM1349)		Voltage	CN4013 (AKM13	53)
No.	Pin Name	(V)	Pin Name	No.
1	GND	0	GND	50
2	RXDA (TXD_DT)	3.3	TXD_DT (RXDA)	49
3	TXDA (RXD_DT)	3.3	RXD_DT (TXDA)	48
4	GND	0	GND	47
5	DT_FNC	3.3	DT_FNC	46
6	GND	0	GND	45
7	CLK_DT	0 to 3.3	CLK_DT	44
8	GND	0	GND	43
9	DVID_CrCb [7] (Y7_DT)	0 to 3.3	Y7_DT (DVID_CrCb [7])	42
10	DVID_CrCb [6] (Y6_DT)	0 to 3.3	Y6_DT (DVID_CrCb [6])	41
11	GND	0	GND	40
12	DVID_CrCb [5] (Y5_DT)	0 to 3.3	Y5_DT (DVID_CrCb [5])	39
13	DVID_CrCb [4] (Y4_DT)	0 to 3.3	Y4_DT (DVID_CrCb [4])	38
14	GND	0	GND	37
15	DVID_CrCb [3] (Y3_DT)	0 to 3.3	Y3_DT (DVID_CrCb [3])	36
16	DVID_CrCb [2] (Y2_DT)	0 to 3.3	Y2_DT (DVID_CrCb [2])	35
17	GND	0	GND	34
18	DVID_CrCb [1] (Y1_DT)	0 to 3.3	Y1_DT (DVID_CrCb [1])	33
19	DVID_CrCb [0] (Y0_DT)	0 to 3.3	Y0_DT (DVID_CrCb [0])	32
20	GND	0	GND	31
21	NC	0	CB7_DT	30
22	NC	0	CB6_DT	29
23	GND	0	GND	28
24	GND	0	CB5_DT	27
25	GND	0	CB4_DT	26
26	GND	0	GND	25
27	GND	0	CB3_DT	24
28	GND	0	CB2_DT	23
29	GND	0	GND	22
30	GND	0	CB1_DT	21
31	GND	0	CB0_DT	20
32	GND	0	GND	19
33	GND	0	CR7_DT	18
34	GND	0	CR6_DT	17
35	GND	0	GND	16
36	GND	0	CR5_DT	15
37	GND	0	CR4_DT	14
38	GND	0	GND	13
39	GND	0	CR3_DT	12
40	GND	0	CR2_DT	11
41	GND	0	GND	10
42	GND	0	CR1_DT	9
43	GND	0	CR0_DT	8
44	GND	0	GND	7
45	DE_DT	0	DE_DT	6
46	GND	0	GND	5
47	VD_DT	3.3	VD_DT	4
48	GND	0	GND	3
49	HD_DT	3.3	HD_DT	2
50	GND	0	GND	1

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R07 DT Assy MAIN Assy

CN	4000 (AKM1348)	Voltage	CN4014 (AKM13	54)
No.	Pin Name	(V)	Pin Name	No.
1	GND	0	GND	40
2	GND	0	GND	39
3	GND	0	GND	38
4	GND	0	GND	37
5	GND	0	GND	36
6	GND	0	GND	35
7	DT_SP_R	0	DT_SP_R	34
8	GND	0	GND	33
9	DT_SP_L	0	DT_SP_L	32
10	GND	0	GND	31
11	OPT_R	0	OPT_R	30
12	GND	0	GND	29
13	OPT_L	0	OPT_L	28
14	GND	0	GND	27
15	DT_MON_C	1.7	DT_MON_C	26
16	GND	0	GND	25
17	GND	0	GND	24
18	DT_MON_Y	1.7	DT_MON_Y	23
19	GND	0	GND	22
20	GND	0	GND	21
21	GND	0	GND	20
22	GND	0	GND	19
23	GND	0	GND	18
24	GND	0	GND	17
25	GND	0	GND	16
26	GND	0	GND	15
27	NOT_USE	0	NC	14
28	GND	0	GND	13
29	GND	0	GND	12
30	NOT_USE	0	NC	11
31	GND	0	GND	10
32	GND	0	GND	9
33	NOT_USE	0	NC	8
34	GND	0	GND	7
35	GND	0	GND	6
36	ANT_POW_EU	0	ANT_POW_EU	5
37	POW_DET	0	POW_DET	4
38	RST_DT	3.3	RST_DT	3
39	DT_DET	0	DT_DET	2
40	GND	0	GND	1

AUDIO Assy MAIN Assy

3

CN3	752 (KM200NA11)	Voltage	CN4007 (KM200N	A11)
No.	Pin Name	(V)	Pin Name	No.
11	PSW_A	2.8	PSW_A	11
10	SDA_AU	3.4	SDA_AU	10
9	SCL_AU	3.4	SCL_AU	9
8	A_MUTE	0	A_MUTE	8
7	A_STBY_B	3.4	A_STBY_B	7
6	GND	0	GND	6
5	AUDIO_R	0	AUDIO_R	5
4	GND	0	GND	4
3	AUDIO_L	0	AUDIO_L	3
2	GND	0	GND	2
1	A_NG_B	2.8	A_NG_B	1

AUDIO

MAIN Assy

		Voltage	CN4015 (B3P-V	H)
No.	Pin Name	(V)	Pin Name	No.
		17.2	V+16_5V	1
		0	GND	2
		0	GND	3

DVI JIG

MAIN Assy

		Voltage	CN4011 (AKM12	74)
No.	Pin Name	(V)	Pin Name	No.
		0	GND	1
		3.4	V+3_3V_STB	2
		6.5	V+6_5V	3

MAIN Assy

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LED IR Assy CN9701 (AKP1303)			Voltage	CN4010 (KM200N	IA7)
κ P1	No.	Pin Name	(V)	Pin Name	No.
ASS 1 (A	2	REM	0	REM	7
D IR	6	GND	0	GND	6
ᆲᅙᆫ	1	V+5_1V_STB	5.0	V+5_1V_STB	5
ssy 4L)	4	V+3_3V_STB	3.4	V+3_3V_STB	4
Y A A	3	KEY_AD1	3.4	KEY_AD1	3
E KE	2	KEY_AD2	3.4	KEY_AD2	2
S + F	1	GND	0	GND	1
SIDE KEY Assy CN9501 (KM200NA4L)					
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R07 DT Assy

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MAIN Assy

CN	6000 (AKM1298)	Voltage	CN4017 (KM200N	(KM200NA12)	
No.	Pin Name	(V)	Pin Name	No.	
1	V+35V	37.0	V+35V	12	
2	GND	0	GND	11	
3	NC	0	NC	10	
4	GND	0	GND	9	
5	V+12V	11.8	V+12V	8	
6	GND	0	GND	7	
7	V+6_5V	6.7	V+6_5V	6	
8	V+5_1V_STB	5.1	V+5_1V_STB	5	
9	V+5_1V	5.0	V+5_1V	4	
10	V+5_1V	5.0	V+5_1V	3	
11	GND	0	GND	2	
12	V+3_3V_STB	3.4	V+3_3V_STB	1	

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POWER SUPPLY Unit

MAIN Assy

P8 (B13B-PH-K-S)		Voltage	CN4002 (KM200NA13)	
No.	Pin Name	(V)	Pin Name	No.
1	V+6_5V	6.6	V+6_5V	1
2	GND	0	GND	2
3	V+12V	12.1	V+12V	3
4	GND	0	GND	4
5	+16.5V	17.2	V+16.5V	5
6	GND	0	GND	6
7	+5_1V	4.9	V+5_1V	7
8	+5_1V	4.9	V+5_1V	8
9	+5_1V	4.9	V+5_1V	9
10	+5_1V	4.9	V+5_1V	10
11	GND-D	0	GND	11
12	GND-D	0	GND	12
13	GND-D	0	GND	13

POWER SUPPLY Unit

MAIN Assy

P9 (B11B-PH-K-S)		Voltage	CN4008 (KM200N	A11)
No.	Pin Name	(V)	Pin Name	No.
1	M-SW-DET	3.4	N.C.	1
2	AC-DET	3.4	AC_DET	2
3	N.C.	3.4	RELAY	3
4	GND-D	0	GND	4
5	STB3_3V	3.4	V+3_3V_STB	5
6	GND-D	0	GND	6
7	STBY5_1V	5.0	V+5_1V_STB	7
8	GND-D	0	GND	8
9	+35V	35.0	V+35V	9
10	GND-D	0	GND	10
11	US-SW	0	US_SW	11

Fan

MAIN Assy

		Voltage	CN4009 (KM200NA3)	
No.	Pin Name	(V)	Pin Name	No.
		0	FAN_VCC	1
		3.4	FAN_NG1	2
		0	GND	3

PC Assy

MAIN Assy

CN9301 (CKS3826)		Voltage	CN4018 (AKM12	34)
No.	Pin Name	(V)	Pin Name	No.
1	V+5V_A	5.0	V+5V_A	12
2	WE ROM	0	WE ROM	11
3	D-sub DET	0	D-sub DET	10
4	V+3.3V_UCOM	3.3	V+3.3V_UCOM	9
5	PC_V	0	PC_V	8
6	PC_H	0	PC_H	7
7	V+9V_A	9.0	V+9V_A	6
8	PC_G	2.4	PC_G	5
9	GND	0	GND	4
10	PC_B	2.4	PC_B	3
11	GND	0	GND	2
12	PC_R	2.4	PC_R	1

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LED IR Assy/KEY Assy

MAIN Assy

CN9701/CN9501		Voltage	CN4010 (KM200NA7)		
No.	Connector	Pin Name	(V)	Pin Name	No.
2	CN9701	REM	0	REM	7
6	CN9701	GND	0	GND	6
1	CN9701	V+5.1V_STB	5	V+5.1V_STB	5
4	CN9501	V+3.3V_STB	3.4	V+3.3V_STB	4
3	CN9501	KEY_AD1	3.4	KEY_AD1	3
2	CN9501	KEY_AD2	3.4	KEY_AD2	2
1	CN9501	GND	0	GND	1

50LED Assy/KEY Assy

MAIN Assy

	CN9651/CN9701		Voltage	CN4006 (KM200)	NA6)
No.	Connector	Pin Name	(V)	Pin Name	No.
1	CN9651	LED-	0.2	LED-	1
2	CN9651	LED_ON	3.4	LED_ON	2
3	CN9651	LED_OFF	0	LED_OFF	3
4	CN9701	LED_REC	0	LED_REC	4
5	CN9701	LED_MDM	0	LED_MDM	5
3	CN9701	LED-	0.2	LED-	6

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■50 DIGITAL ASSY

CN3001 (D11) \leftrightarrow MAIN ASSY CN4001 (M1)

Pin No.	Pin Name	I/O	Function	Voltage (V)	TP
1	GND	_	GND	_	_
2	V+3.3V_UCOM2	I	Power supply for module microcomputer	3.3	
3	INP_MUTE	0	Video signal input shut out control signal	0	
4	THEATER	I	Control signal for pure cinema	0 to 3.3	
5	VD	- 1	Vertical synchronized signal	0 to 3.3	_
6	HD	- 1	Horizontal synchronized signal	0 to 3.3	-
7	DE	1	Data enable signal	0 to 3.3	_
8	GND		GND	_	-
9	CLK	- 1	Data clock signal	0 to 3.3	-
10	GND	_	GND	_	-
11	GND	_	GND	_	-
12	VIDEO_R9	1	10 bit video signal input (RED)	0 to 3.3	_
13	VIDEO_R8	- 1	10 bit video signal input (RED)	0 to 3.3	_
14	VIDEO_R7	1	10 bit video signal input (RED)	0 to 3.3	_
15	VIDEO_R6	1	10 bit video signal input (RED)	0 to 3.3	_
16	VIDEO_R5	1	10 bit video signal input (RED)	0 to 3.3	_
17	VIDEO R4	1	10 bit video signal input (RED)	0 to 3.3	_
18	VIDEO_R3	1	10 bit video signal input (RED)	0 to 3.3	_
19	VIDEO R2	1	10 bit video signal input (RED)	0 to 3.3	_
20	VIDEO_R1	T i	10 bit video signal input (RED)	0 to 3.3	_
21	VIDEO_R0	T i	10 bit video signal input (RED)	0 to 3.3	_
22	GND	_	GND	_	_
23	VIDEO_G9	1	10 bit video signal input (GREEN)	0 to 3.3	_
24	VIDEO_G8	† i	10 bit video signal input (GREEN)	0 to 3.3	
25	VIDEO_G7	i	10 bit video signal input (GREEN)	0 to 3.3	_
26	VIDEO_G6	† <u>†</u>	10 bit video signal input (GREEN)	0 to 3.3	_
27	VIDEO_G5	T i	10 bit video signal input (GREEN)	0 to 3.3	_
28	VIDEO_G4	<u> </u>	10 bit video signal input (GREEN)	0 to 3.3	
29	VIDEO_G3	<u> </u>	10 bit video signal input (GREEN)	0 to 3.3	_
30	VIDEO_G2	<u> </u>	10 bit video signal input (GREEN)	0 to 3.3	_
31	VIDEO_G1	 	10 bit video signal input (GREEN)	0 to 3.3	
32	VIDEO_G0	+ i	10 bit video signal input (GREEN)	0 to 3.3	
33	GND	+ -	GND	0 10 3.3	
34	VIDEO_B9	+ -	10 bit video signal input (BLUE)	0 to 2 2	
35	VIDEO_B9	+ i	10 bit video signal input (BLUE)	0 to 3.3 0 to 3.3	
		_			
36	VIDEO_B7	+ !-	10 bit video signal input (BLUE)	0 to 3.3	
37	VIDEO_B6	+ !-	10 bit video signal input (BLUE)	0 to 3.3	
38	VIDEO_B5	<u> </u>	10 bit video signal input (BLUE)	0 to 3.3	
39	VIDEO_B4	+ !-	10 bit video signal input (BLUE)	0 to 3.3	
40	VIDEO_B3	+ !	10 bit video signal input (BLUE)	0 to 3.3	
41	VIDEO_B2	<u> </u>	10 bit video signal input (BLUE)	0 to 3.3	
42	VIDEO_B1	<u> </u>	10 bit video signal input (BLUE)	0 to 3.3	
43	VIDEO_B0	I	10 bit video signal input (BLUE)	0 to 3.3	
44	GND		GND	_	
45	RESERVE (N.C.)		Reserve	-	_
46	AC_OFF (N.C.)	0	AC state input		
47	TXD_MD	0	UART communication	3.3	
48	RXD_MD	<u> </u>	UART communication	3.3	
49	REQ_MD	0	Communication demand to main system	0	
50	MODE	0	Model distinction	0	_

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CN3002 (D12) \leftrightarrow Reserve (Non connection)

Pin No.	Pin Name	I/O	Function	Voltage (V)	TP
1	V+3V_D	0	+3.3 V power supply output	3.3	-
2	V+3V_D	0	+3.3 V power supply output	3.3	-
3	V+3V_D	0	+3.3 V power supply output	3.3	-
4	GND_D	-	GND	_	-
5	GND_D	_	GND	_	-
6	GND_D	_	GND	_	_
7	LED_R	0	Red LED control output	0 to 3.3	-
8	LED_B	0	Blue LED control output	0 to 3.3	-
9	MSEL	ı	Control select	0 to 3.3	-
10	PBF	ı	Panel type judge	0 to 3.3	-
11	NC	I	Non connection	_	-
12	YOBI0	I	Reserve input	_	-
13	YOBI1	ı	Reserve input	_	-
14	YOBI2	ı	Reserve input	_	-
15	YOBI3	ı	Reserve input	_	-
16	YOBI4	I	Reserve input	_	-
17	NC	I	Non connection	_	
18	NC	ı	Non connection	_	-
19	V+3V_STB	0	STB 3.3 V power supply output	3.3	-
20	GND_D	_	GND	_	_

CN3151 (D24) \leftrightarrow SENSOR ASSY CN3651 (TE1)

Pin No.	Pin Name	I/O	Function	Voltage (V)	TP
1	V+3.3V_EEP	0	Power supply output for memory	3.3	_
2	E_SCL	0	IIC communication clock signal	0 to 3.3	_
3	E_SDA	0	IIC communication data signal	0 to 3.3	_
4	TEMP1	I	Panel temperature sensor signal	0 to 3.3	_
5	GND	_	GND	_	_

CN3601 (D21) ↔ POWER SUPPLY UNIT (P4)

Pin No.	Pin Name	I/O	Function	Voltage (V)	TP
1	V+12V	I	+12 V power supply input	12	_
2	V+12V	I	+12 V power supply input	12	_
3	GND	_	GND	_	_
4	GND	_	GND	_	_
5	V+3.3V_STB	1	STB3.3 V power supply input	0 to 3.3	-
6	GND	_	GND	_	_
7	M_SW_DET	- 1	Mechanism switch detection signal input	0 to 3.3	-
8	EXT_PD	0	Power down signal	0 to 3.3	_
9	VSUS_ADJ	0	VSUS power supply adjustment signal	0 to 3.3	_
10	PS_PD	I	Power supply PD signal	0 to 3.3	_
11	RELAY	0	Relay control	0 to 3.3	_
12	DRF_B	0	Large power supply ON/OFF control signal	0 to 3.3	_
13	AC_DET	1	AC power supply state input	0 to 3.3	-
14	PD_TRG_B	ı	Power down trigger signal	0 to 3.3	_

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CN3501 (D15) \leftrightarrow 50 ADDRESS L ASSY CN1602 (AD1)

Pin No.	Pin Name	I/O	Function	Voltage (V)	TP
1	NC	-	Non connection	-	-
2	ADR_PD	1	Address PD signal	0 to 3.3	_
3	PSIZE	1	Panel size judge signal	0	_
4	GND	_	GND	_	_
5	V+8V	0	+8 V power supply input	8	_
6	V+8V	0	+8 V power supply input	8	_
7	GND	_	GND	-	_
8	GND_LVDS	_	GND	_	_
9	NC	_	Non connection	-	_
10	TAN	0	LVDS data	1 to 1.4	_
11	TAP	0	LVDS data	1 to 1.4	_
12	NC	_	Non connection	_	_
13	GND_LVDS	_	GND	_	_
14	NC	T -	Non connection	_	_
15	TBN	0	LVDS data	1 to 1.4	_
16	TBP	0	LVDS data	1 to 1.4	_
17	NC	_	Non connection	_	_
18	GND_LVDS	_	GND	_	_
19	NC	_	Non connection	_	_
20	TCN	0	LVDS data	1 to 1.4	_
21	TCP	0	LVDS data	1 to 1.4	_
22	NC	_	Non connection	_	_
23	GND_LVDS	_	GND	_	_
24	NC	_	Non connection	_	_
25	TCLKN	0	LVDS data	1 to 1.4	_
26	TCLKP	0	LVDS data	1 to 1.4	_
27	NC	_	Non connection	_	_
28	GND_LVDS	 	GND	_	_
29	NC	-	Non connection	_	_
30	TDN	0	LVDS data	1 to 1.4	_
31	TDP	0	LVDS data	1 to 1.4	_
32	NC	_	Non connection	_	_
33	GND_LVDS	_	GND	_	_
34	GND	T -	GND	_	_
35	V+3.3V	0	+3.3 V power supply output	3.3	_
36	V+3.3V	0	+3.3 V power supply output	3.3	_
37	GND	_	GND	_	_
38	DIV1	0	Data output timing control	3.3	_
39	DIV0	0	Data output timing control	3.3	_
40	GND	T _	GND	-	_

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CN3502 (D16) \leftrightarrow 50 ADDRESS S ASSY CN1802 (AD1)

Pin No.	Pin Name	I/O	Function	Voltage (V)	TP
1	NC	_	Non connection	_	_
2	ADR_PD	I	Address PD signal	0 to 3.3	_
3	PSIZE	I	Panel size judge signal	0	_
4	GND	_	GND	_	_
5	V+8V	0	+8 V power supply input	8	_
6	V+8V	0	+8 V power supply input	8	_
7	GND	_	GND	_	_
8	GND_LVDS	_	GND	_	_
9	NC	_	Non connection	-	_
10	TAN	0	LVDS data	1 to 1.4	_
11	TAP	0	LVDS data	1 to 1.4	-
12	NC	_	Non connection	_	_
13	GND_LVDS	_	GND	-	_
14	NC	_	Non connection	-	-
15	TBN	0	LVDS data	1 to 1.4	-
16	TBP	0	LVDS data	1 to 1.4	_
17	NC	_	Non connection	-	_
18	GND_LVDS	_	GND	-	_
19	NC	_	Non connection	-	_
20	TCN	0	LVDS data	1 to 1.4	_
21	TCP	0	LVDS data	1 to 1.4	_
22	NC	_	Non connection	_	_
23	GND_LVDS	_	GND	-	_
24	NC	_	Non connection	-	-
25	TCLKN	0	LVDS data	1 to 1.4	_
26	TCLKP	0	LVDS data	1 to 1.4	_
27	NC	_	Non connection	_	-
28	GND_LVDS	_	GND	_	_
29	NC	_	Non connection	-	_
30	TDN	0	LVDS data	1 to 1.4	_
31	TDP	0	LVDS data	1 to 1.4	_
32	NC	_	Non connection	-	-
33	GND_LVDS	_	GND	-	_
34	GND	_	GND	-	_
35	V+3.3V	0	+3.3 V power supply output	3.3	
36	V+3.3V	0	+3.3 V power supply output	3.3	-
37	GND	_	GND	-	_
38	DIV1	0	Data output timing control	0	_
39	DIV0	0	Data output timing control	0	_
40	GND		GND		

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CN3503 (D17) ↔ 50 ADDRESS S ASSY CN1802 (AD1)

in No.	Pin Name	I/O	Function	Voltage (V)	TP
1	NC	_	Non connection	_	
2	ADR_PD	I	Address PD signal	0 to 3.3	_
3	PSIZE	I	Panel size judge signal	0	_
4	GND	_	GND	_	_
5	V+8V	0	+8 V power supply input	8	_
6	V+8V	0	+8 V power supply input	8	_
7	GND	_	GND	_	_
8	GND_LVDS	_	GND	_	-
9	NC	_	Non connection	-	-
10	TAN	0	LVDS data	1 to 1.4	_
11	TAP	0	LVDS data	1 to 1.4	_
12	NC	_	Non connection	_	_
13	GND_LVDS	_	GND	_	_
14	NC	T -	Non connection	_	_
15	TBN	0	LVDS data	1 to 1.4	_
16	TBP	0	LVDS data	1 to 1.4	_
17	NC	_	Non connection	_	_
18	GND_LVDS	_	GND	_	_
19	NC	_	Non connection	_	_
20	TCN	0	LVDS data	1 to 1.4	_
21	TCP	0	LVDS data	1 to 1.4	_
22	NC	_	Non connection	_	_
23	GND_LVDS	_	GND	_	_
24	NC	_	Non connection	_	_
25	TCLKN	0	LVDS data	1 to 1.4	_
26	TCLKP	0	LVDS data	1 to 1.4	_
27	NC	_	Non connection	_	_
28	GND_LVDS	_	GND	-	_
29	NC	_	Non connection	_	_
30	TDN	0	LVDS data	1 to 1.4	_
31	TDP	0	LVDS data	1 to 1.4	_
32	NC	_	Non connection	-	_
33	GND_LVDS	_	GND	_	_
34	GND	-	GND	_	_
35	V+3.3V	0	+3.3 V power supply output	3.3	_
36	V+3.3V	0	+3.3 V power supply output	3.3	_
37	GND	_	GND	_	_
38	DIV1	0	Data output timing control	3.3	_
39	DIV0	0	Data output timing control	0	_
40	GND	_	GND	_	_

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CN3504 (D18) ↔ **50 ADDRESS L ASSY CN1602 (AD1)**

Pin No.	Pin Name	I/O	Function	Voltage (V)	TP
1	NC	_	Non connection	-	-
2	ADR_PD	I	Address PD signal	0 to 3.3	-
3	PSIZE	I	Panel size judge signal	0	_
4	GND	_	GND	_	_
5	V+8V	0	+8 V power supply input	8	-
6	V+8V	0	+8 V power supply input	8	-
7	GND	_	GND	_	-
8	GND_LVDS	_	GND	-	_
9	NC	_	Non connection	-	_
10	TAN	0	LVDS data	1 to 1.4	_
11	TAP	0	LVDS data	1 to 1.4	_
12	NC	_	Non connection	-	_
13	GND_LVDS	_	GND	-	_
14	NC	_	Non connection	-	-
15	TBN	0	LVDS data	1 to 1.4	_
16	TBP	0	LVDS data	1 to 1.4	_
17	NC	_	Non connection	_	_
18	GND_LVDS	_	GND	_	_
19	NC	_	Non connection	_	_
20	TCN	0	LVDS data	1 to 1.4	_
21	TCP	0	LVDS data	1 to 1.4	_
22	NC	_	Non connection	_	_
23	GND_LVDS	_	GND	_	_
24	NC	_	Non connection	_	_
25	TCLKN	0	LVDS data	1 to 1.4	_
26	TCLKP	0	LVDS data	1 to 1.4	_
27	NC	_	Non connection	_	_
28	GND_LVDS	_	GND	_	_
29	NC	_	Non connection	_	_
30	TDN	0	LVDS data	1 to 1.4	_
31	TDP	0	LVDS data	1 to 1.4	_
32	NC	_	Non connection	_	_
33	GND_LVDS	_	GND	_	_
34	GND	_	GND	_	_
35	V+3.3V	0	+3.3 V power supply output	3.3	_
36	V+3.3V	0	+3.3 V power supply output	3.3	_
37	GND	_	GND	-	_
38	DIV1	0	Data output timing control	0	_
39	DIV0	0	Data output timing control	3.3	_
40	GND		GND	_	_

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CN3506 (D20) \leftrightarrow 50 Y MAIN DRIVE ASSY CN2001 (Y1)

Pin No.	Pin Name	I/O	Function	Voltage (V)	TP
40	PSW2	0	Function standby control signal	0 to 3.3	
39	YDRV_PD	1	Y drive PD signal	0 to 3.3	_
38	SCAN_PD	I	Y drive PD signal	0 to 3.3	_
37	YSUS_PD	I	Y drive PD signal	0 to 3.3	_
36	YDD_PD	I	Y drive PD signal	0 to 3.3	_
35	GND	_	GND	_	_
34	GND	_	GND	_	_
33	GND	_	GND	_	_
32	GND	_	GND	_	_
31	VYPRST_ADJ	0	Y drive control signal	0 to 3.3	_
30	VOFS_ADJ	0	Y drive control signal	0 to 3.3	_
29	GND	_	GND	_	_
28	YSOFT-D	0	Y drive control signal	0 to 3.3	_
27	YRsv3	0	Y drive control signal	0 to 3.3	_
26	YNOFS	0	Y drive control signal	0 to 3.3	_
25	GND	_	GND	_	_
24	YRsv2	0	Y drive control signal	0 to 3.3	_
23	YNRST	0	Y drive control signal	0 to 3.3	_
22	YSUS_MSK	0	Y drive control signal	0 to 3.3	_
21	GND	_	GND	_	_
20	SUS_MUTE	0	Y drive control signal	0 to 3.3	_
19	YPR-U	0	Y drive control signal	0 to 3.3	_
18	GND	_	GND	_	_
17	YSUS_G	0	Y drive control signal	0 to 3.3	_
16	YSUS_D	0	Y drive control signal	0 to 3.3	_
15	GND	_	GND	_	_
14	YSUS_U	0	Y drive control signal	0 to 3.3	_
13	YSUS_B	0	Y drive control signal	0 to 3.3	_
12	GND	_	GND	_	_
11	OC1 (-1)	0	Scan control signal	0 to 3.3	_
10	OC2	0	Scan control signal	0 to 3.3	_
9	LE	0	Scan control signal	0 to 3.3	_
8	GND	_	GND	_	_
7	CLK1	0	Scan control signal	0 to 3.3	_
6	CLR	0	Scan control signal	0 to 3.3	_
5	GND	_	GND	_	_
4	SI_H	0	Scan control signal	0 to 3.3	_
3	SI_L	0	Scan control signal	0 to 3.3	_
2	SCN5V_PD	I	Scan 5 V PD signal	0 to 3.3	_
1	YCN PD	0	Y drive PD signal	0 to 3.3	_

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CN3505 (D19) \leftrightarrow 50 X MAIN DRIVE ASSY CN1001 (X1)

Pin No.	Pin Name	I/O	Function Voltage (TP
1	PSW2	0	Function standby control signal	0 to 3.3	-
2	XSUS_PD	I	X drive PD signal	0 to 3.3	-
3	XDD_PD	1	X drive PD signal	0 to 3.3	-
4	XDRV_PD	1	X drive PD signal	0 to 3.3	-
5	GND	_	GND	-	_
6	SUS_MUTE	0	X drive control signal	0 to 3.3	_
7	XSUS_MSK	0	X drive control signal	0 to 3.3	-
8	GND	_	GND	-	-
9	XNR_D	0	X drive control signal	0 to 3.3	_
10	GND	-	GND	_	-
11	XSUS_G	0	X drive control signal	0 to 3.3	-
12	GND	_	GND	-	-
13	XSUS_D	0	X drive control signal	0 to 3.3	_
14	GND	_	GND	_	_
15	XSUS_U	0	X drive control signal	0 to 3.3	_
16	GND	_	GND	_	_
17	XSUS_B	0	X drive control signal	0 to 3.3	_
18	XCN_PD	0	X drive PD signal	0 to 3.3	_

■ Pin Function

AUDIO ASSY CN3752 (A2) \leftrightarrow MAIN ASSY CN4007 (M9)

Pin No.	Pin Name	I/O	Function Remarks	
1	A_NG_B	0	DC detection, disconnection of cable detection	L : Abnormal, H : Normal
2	GND	_	GND for small signal	_
3	AUDIO_L	I	Small signal L ch	_
4	GND	-	GND for small signal	_
5	AUDIO_R	ı	Small signal R ch -	
6	GND	_	GND for small signal –	
7	A_STBY_B	I	MUTE ON/OFF signal for LA4625 IC internal circuit L : Standby,	
8	A_MUTE	I	MUTE ON/OFF signal for LA4625 IC external circuit	L : MUTE OFF, H : MUTE
9	SCL_AU	I	CLK of I2C for NJW1183GK1 IC –	
10	SDA_AU	I/O	DATA of I2C for NJW1183GK1 IC	_
11	PSW_A	Ī	ON/OFF switch for 12 V regulator IC	L: OFF, H: ON

AUDIO ASSY CN3751 (A1) ↔ POWER SUPPLY UNIT (P5)

Pin No.	Pin Name	I/O	Function	Remarks
1	+16.5V	_	Power supply (16.5 V) for LA4625 IC	_
2	GND_D	_	Return GND for LA4625 IC	_
3	GND_D	_	Return GND for LA4625 IC	_

AUDIO ASSY CN3753 (A3) \leftrightarrow SP TERMINAL ASSY CN3901 (SP1)

Pin No.	Pin Name	I/O	Function	Remarks
1	RH+	0	Tweeter output R+	_
2	RL+	0	Woofer output R+ (Speaker output R+)	_
3	RH-	0	weeter output R	
4	RL-	0	Woofer output R– (Speaker output R–)	
5	LL+	0	Woofer output L+ (Speaker output L+)	
6	LH+	0	Tweeter output L+ -	
7	LL-	0	Woofer output L- (Speaker output L-)	
8	LH-	0	Tweeter output L-	_

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SIDE KEY ASSY CN9501 (SW1) \leftrightarrow MAIN ASSY CN4010 (M8)

Pin No.	Pin Name	I/O	Function	Remarks
1	GND	_	GND	_
2	KEY_AD2	0	KEY voltage 2	_
3	KEY_AD1	0	KEY voltage 1	_
4	V+3.3V STB	_	Standby 3.3 V power supply	_

50 LED ASSY CN9651 (L1) ↔ MAIN ASSY CN4006 (M5)

Pin No.	Pin Name	I/O	Function	Remarks
1	LED-	-	LED signal return	_
2	LED_ON	I	LED control for power ON	H:LED_ON, L:LED_OFF
3	LED_OFF	1	LED control for standby	H: LED_ON, L: LED_OFF

LED IR ASSY CN9701 (RE1) ↔ MAIN ASSY CN4010 (M8)

Pin No.	Pin Name	I/O	Function	Remarks
1	V+5.1V_STB	_	Standby 5.1 V power supply	_
2	REM	0	Remote control signal	_
3	LED-	_	LED signal return	_
4	LED_REC	I	LED control for REC	H:LED_ON, L:LED_OFF
5	LED_MDM	I	-	_
6	GND	_	GND	_

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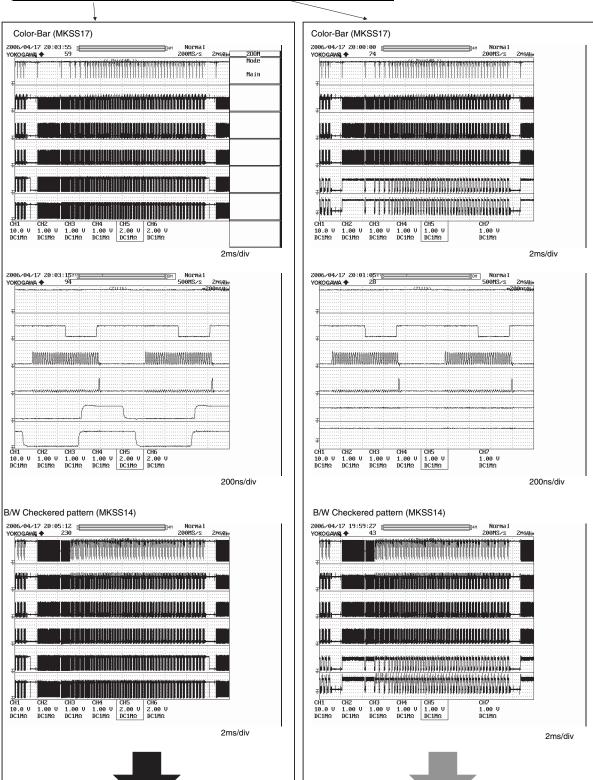
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4.18 WAVEFORMS

50 ADDRESS L Assy Waveform

	Measuring CH Waveform		Measuring Point	Waveform	Measuring Point	J
1	CH1	Resonance waveform (V+ADR)	L1730	Resonance waveform (V+ADR)	L1730	1
(2)	CH2	R ch signal	R1608	R ch signal	R1608	1
(3)	CH3	CLK	R1637	CLK	R1637	1
(4)	CH4	LE	R1621	LE	R1621	1
(5)	CH5	ADR-D	R1720	HBLK	R1615	(8)
(<u>6</u>)	CH6	ADR-B	R1714	_	-	_
	CH7	-	-	LBLK	R1616	7



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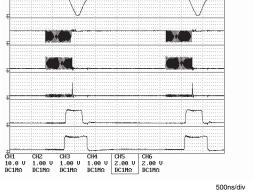
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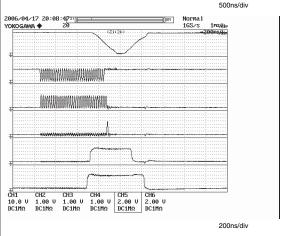
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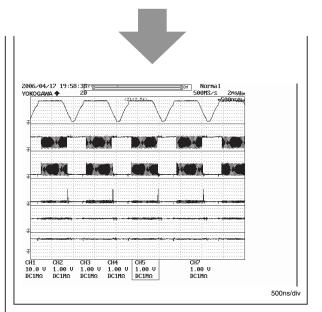
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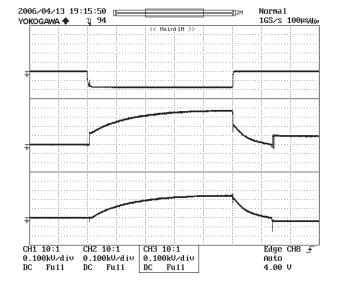
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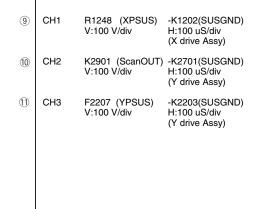
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50 X/Y DRIVE Assy Waveform

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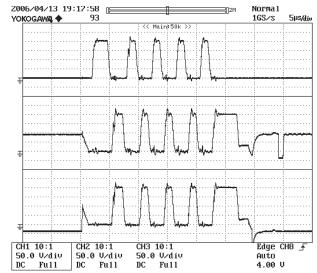
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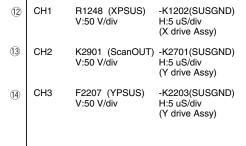
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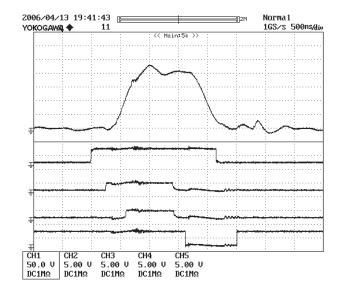
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15)	CH1	F2207 (YPSUS) V:100 V/div	-K2203(SUSGND) H:500 nS/div (Y drive Assy)
16	CH2	K2021 (YSUS_G) V:5 V/div	-K2014(GND) H:500 nS/div (Y drive Assy)
17)	CH3	K2009 (YSUS_U) V:5 V/div	-K2014(GND) H:500 nS/div (Y drive Assy)
18	CH4	K2013 (YSUS_B) V:5 V/div	-K2014(GND) H:500 nS/div (Y drive Assy)
19	CH5	K2010 (YSUS_D) V:5 V/div	-K2014(GND) H:500 nS/div (Y drive Assy)

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Edge CH8 f Auto 4.00 V

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CH1 10:1 1.00 V/div DC Full

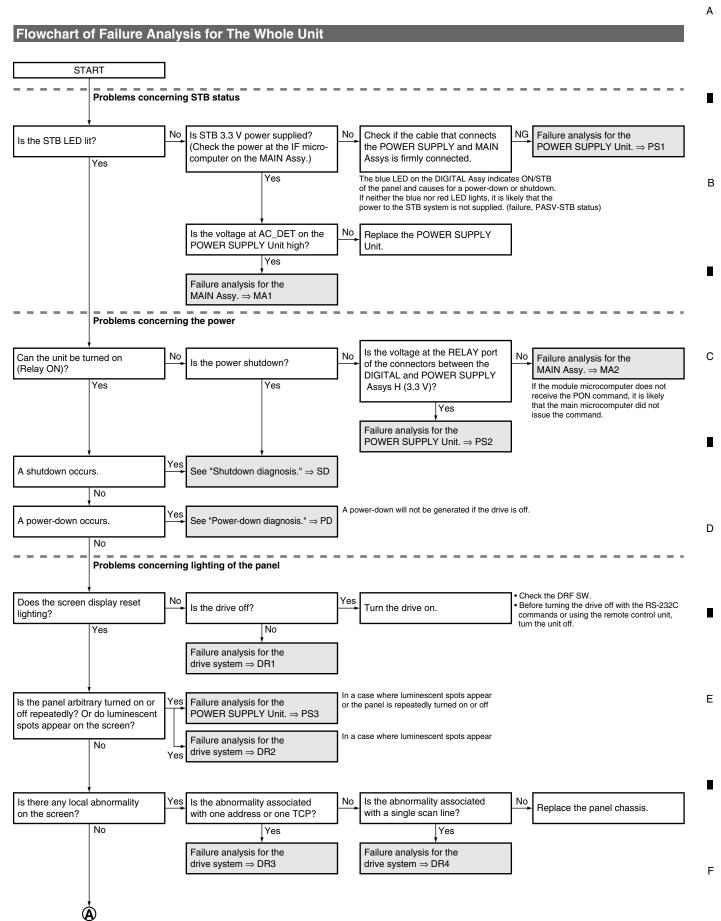
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5. DIAGNOSIS INFORMATION

5.1 THE FLOW OF DIAGNOSIS

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5.1.1 FLOWCHART OF FAILURE ANALYSIS FOR THE WHOLE UNIT

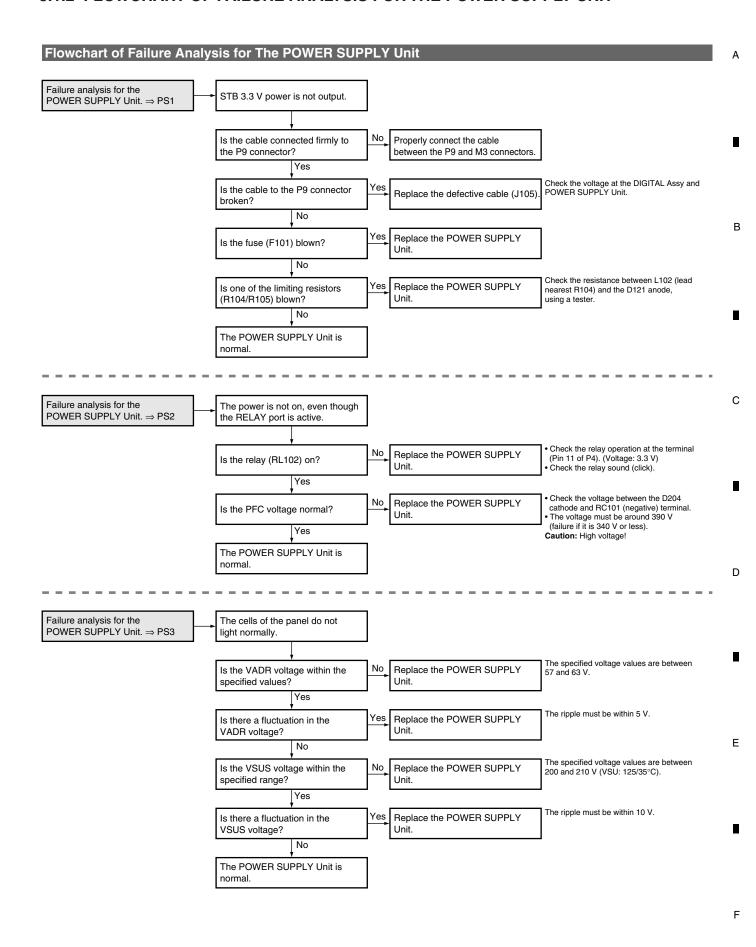


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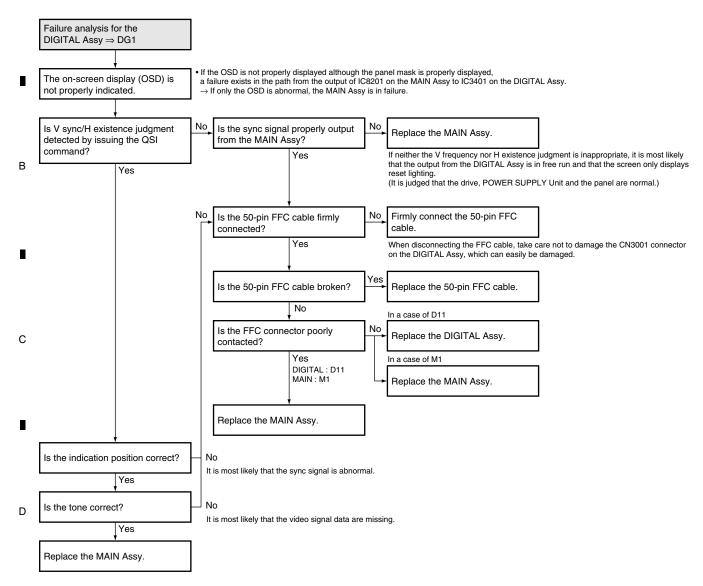
Α **(A)** In the subsequent diagnostic steps, it is most likely that the multi base section is in failure. Problems concerning video display Is the panel mask properly No Failure analysis for the drive system ⇒ DR2 displayed? Yes Check with the animated slanting ramp mask. No Failure analysis for the Is the on-screen display (OSD) properly displayed? DIGITAL Assy ⇒ DG1 Yes Check on the Factory menu. No Failure analysis for the Is an external video signal MAIN Assy \Rightarrow MA3 displayed properly? Yes Problems concerning the audio output No Failure analysis for the Is the audio signal output? audio system ⇒ AU1 С Yes Specific failure whose cause is difficult to identify in the initial stage Ε 82 PDP-507XD

5.1.2 FLOWCHART OF FAILURE ANALYSIS FOR THE POWER SUPPLY UNIT



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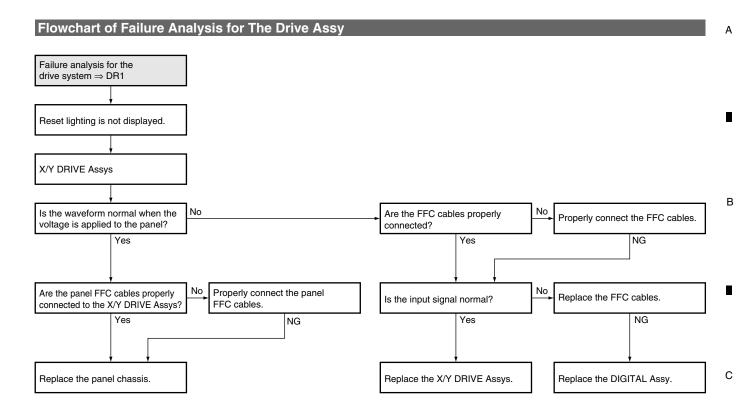
Flowchart of Failure Analysis for The DIGITAL Assy



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5.1.4 FLOWCHART OF FAILURE ANALYSIS FOR THE DRIVE ASSY



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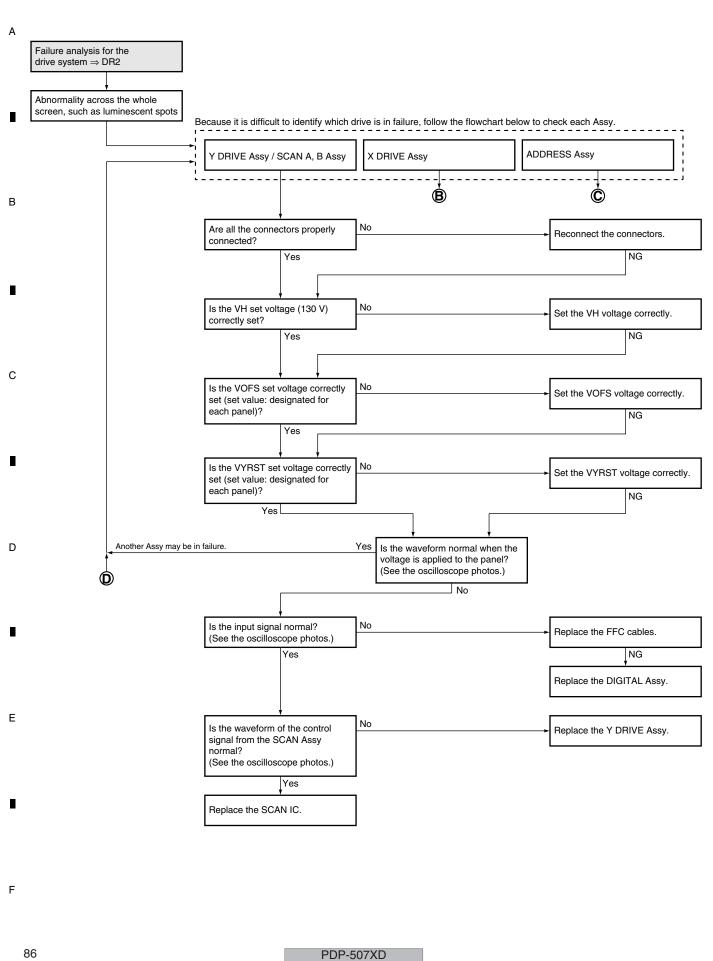
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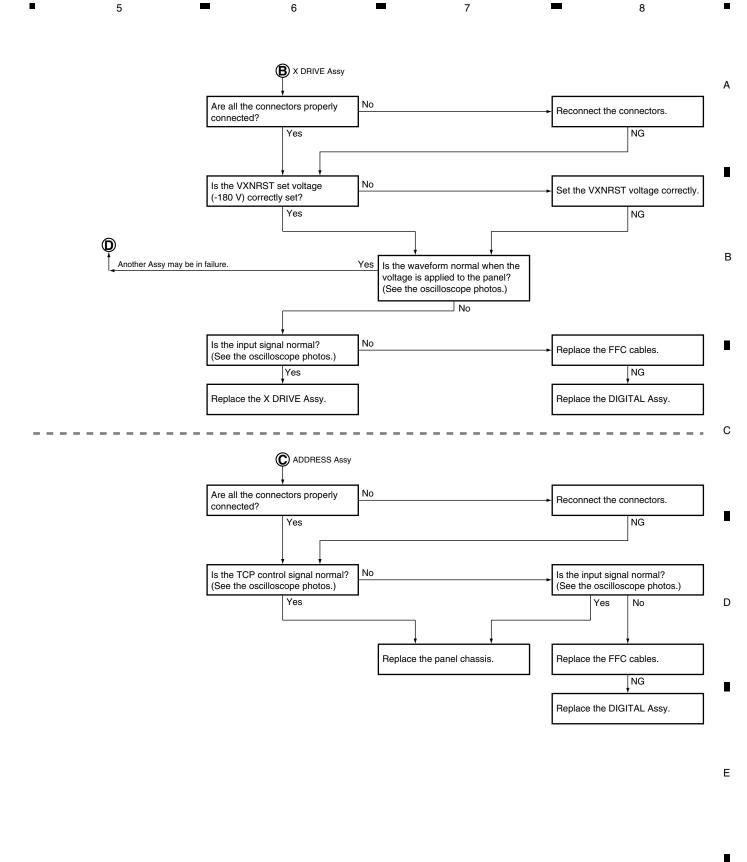
PDP-507XD

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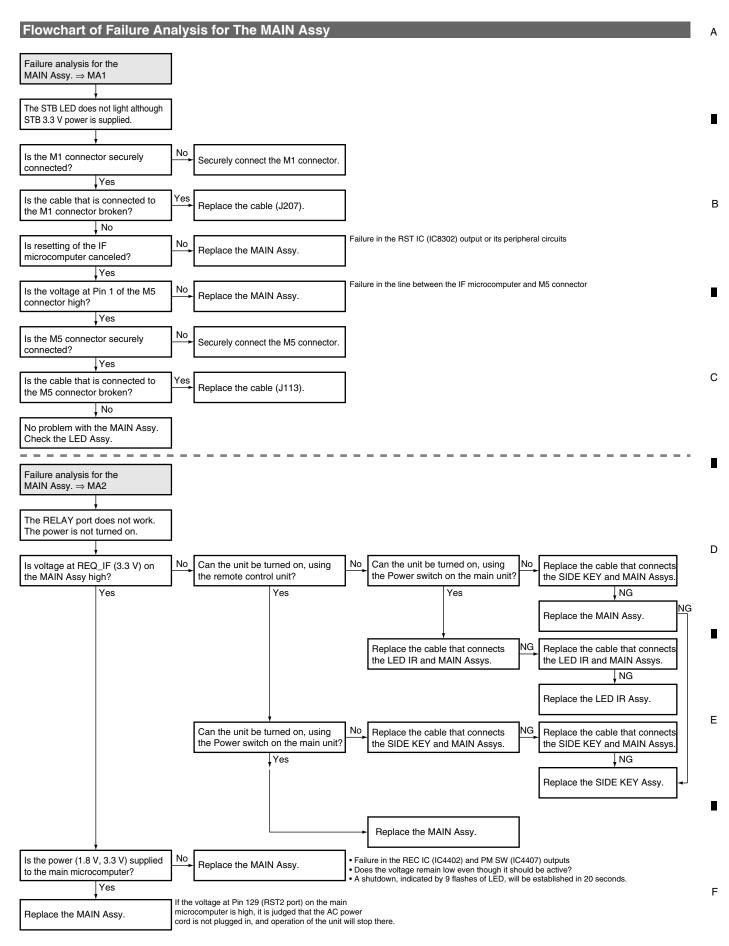
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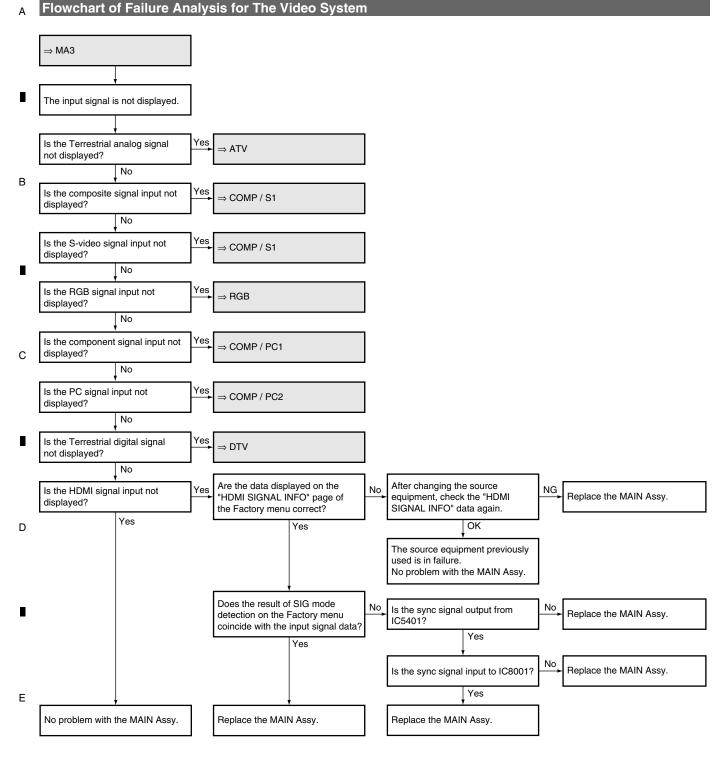
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5.1.6 FLOWCHART OF FAILURE ANALYSIS FOR THE VIDEO SYSTEM

Flourahout of Failure Analysis for The Video System



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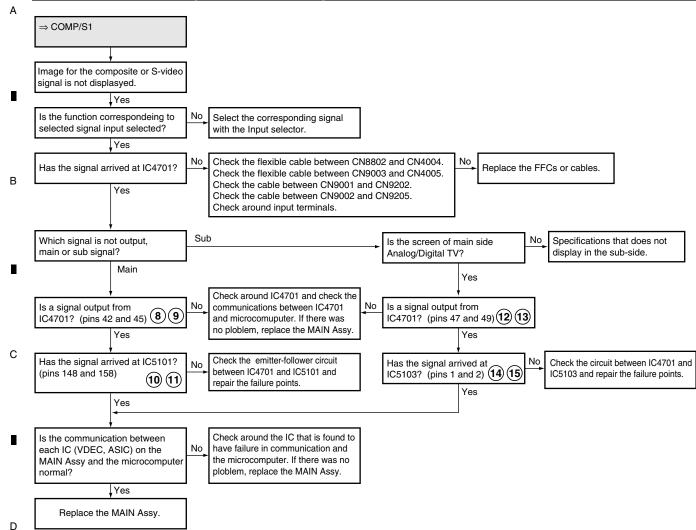
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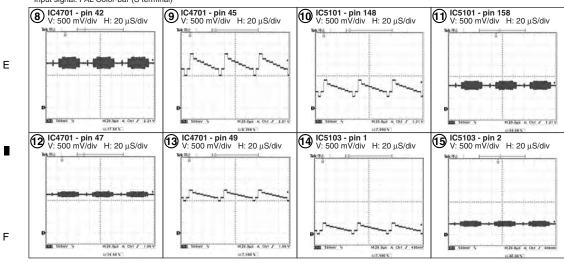
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Flowchart of Failure Analysis for The Video System



Waveforms

Input signal: PAL Color-bar (S terminal)



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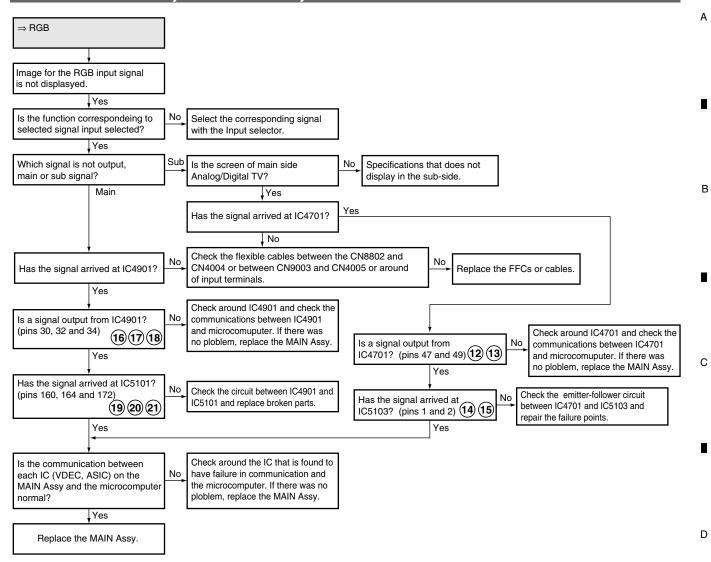
PDP-507XD

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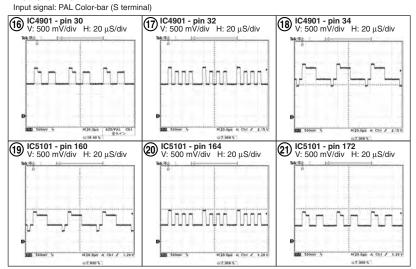
Flowchart of Failure Analysis for The Video System

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Waveforms



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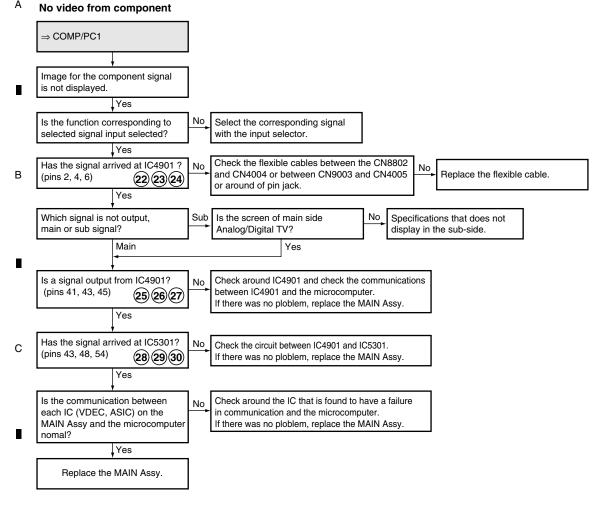
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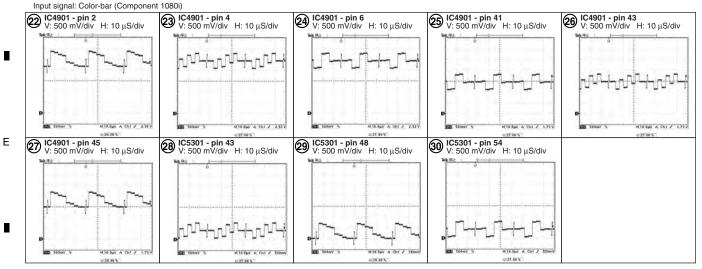
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Flowchart of Failure Analysis for The Video System



Waveforms

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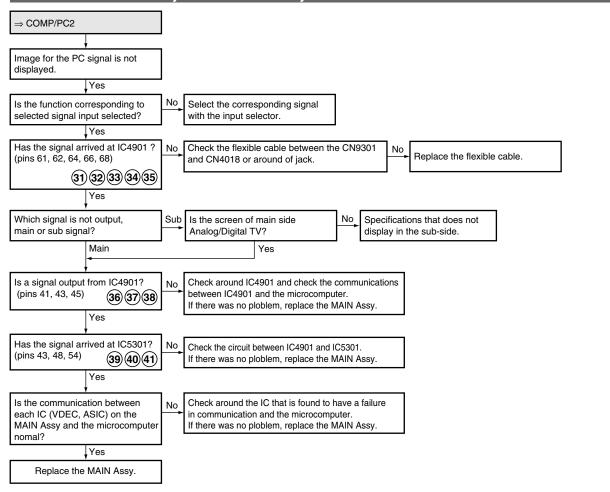


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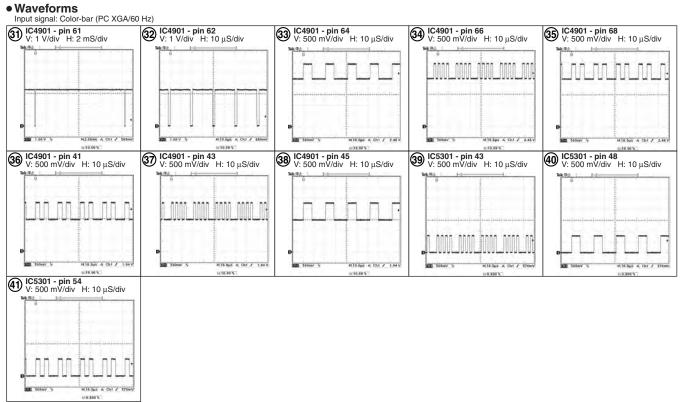
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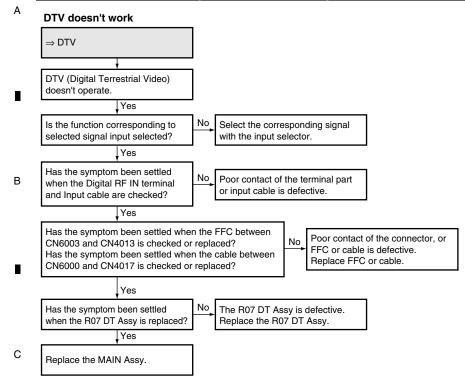
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Flowchart of Failure Analysis for The Video System



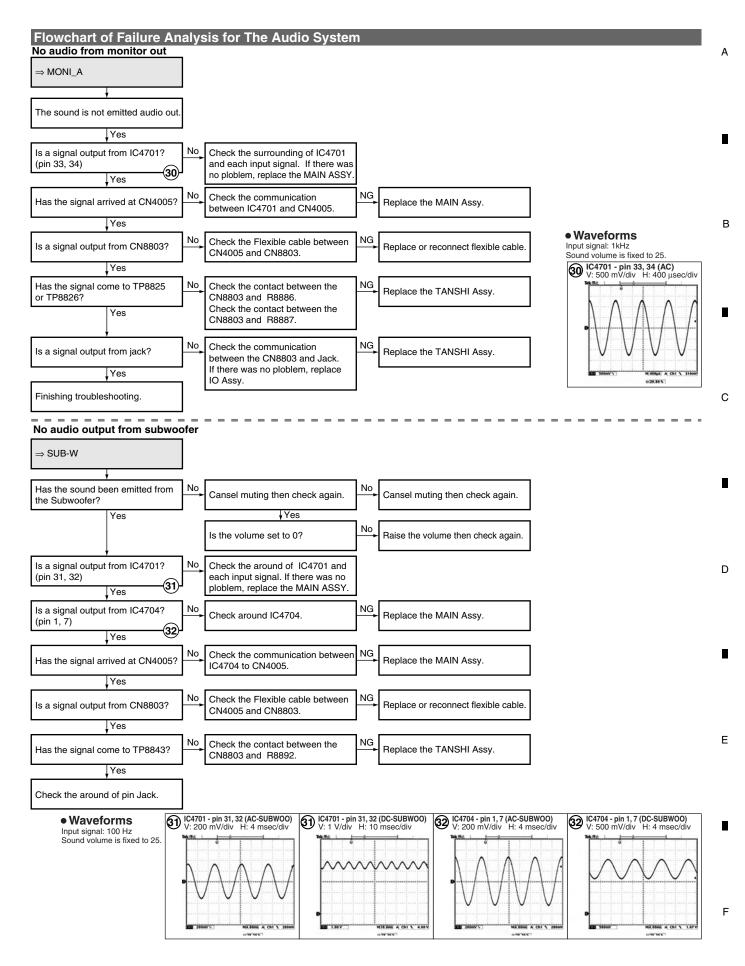
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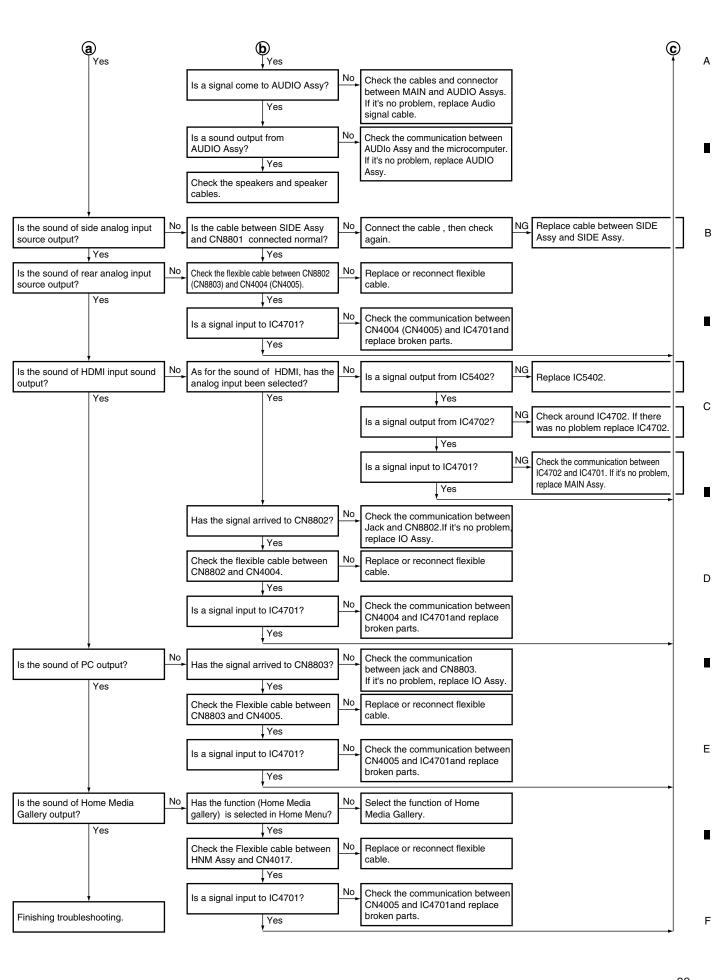
5.1.7 FLOWCHART OF FAILURE ANALYSIS FOR THE AUDIO SYSTEM



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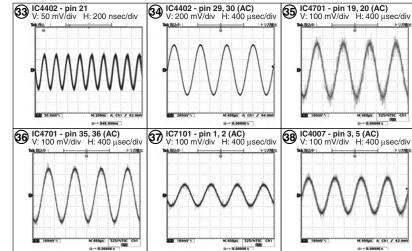
PDP-507XD

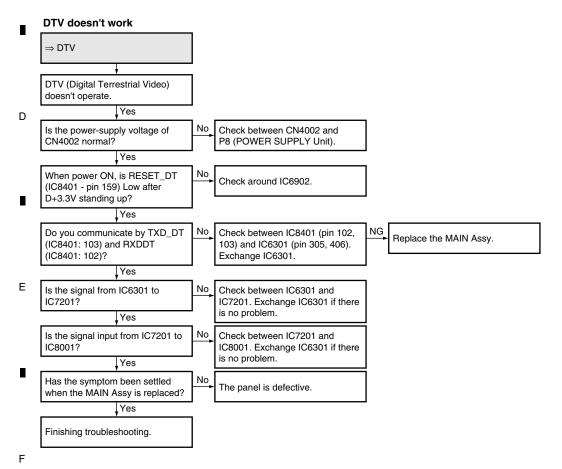
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Waveforms

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Input signal: 1kHz Sound volume is fixed to 25.

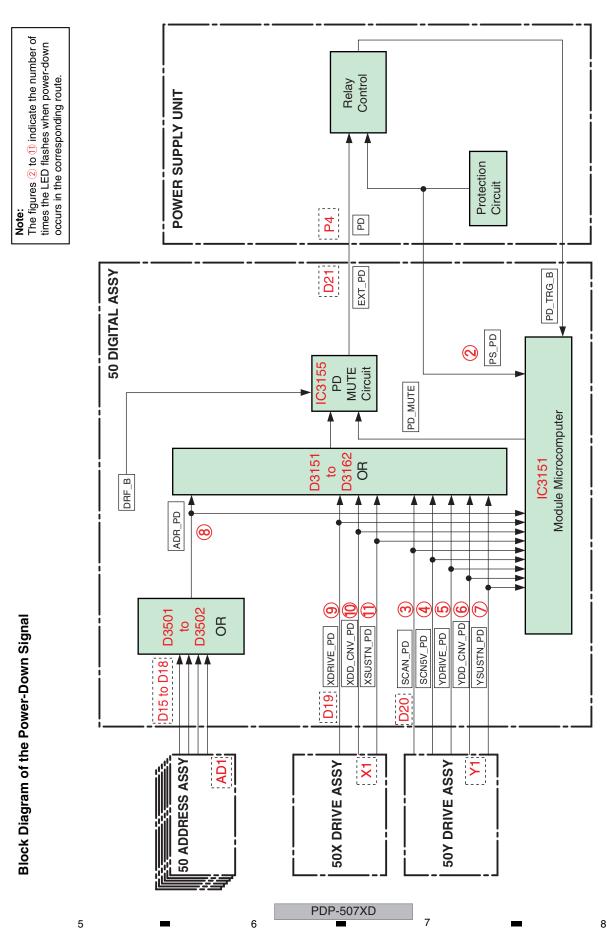




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■ Block Diagram of the Power-Down Signal



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■ Prediction of failure symptoms when a PD (power-down) is generated

LED Flashing Count	PD Circuit	Checkpoint	Main Cause
2	Power supply PD	POWER SUPPLY Unit	Failure in the POWER SUPPLY Unit
		50 SCAN A, B Assy	SCAN IC is damaged (short-circuiting between VH and GNDH)
3	SCAN PD	50Y DRIVE Assy	Connectors disconnected between the POWER SUPPLY Unit and the Y DRIVE Assy Connectors disconnected between the DIGITAL and the Y DRIVE Assys Failure in the VH power
		TOCCANIA DAGO	SCAN IC is damaged (short-circuiting between IC5V and GNDH)
,	IOEV DD	50SCAN A, B Assy	Disconnection of the scan-bridge (15-pin) connector
4	IC5V PD	50\\ DDI\\E A	Failure in the photo coupler
		50Y DRIVE Assy	Abnormality in the IC5V DC/DC converter
5	Y-DRIVE PD	50Y DRIVE Assy	Abnormality in the 16.5 V power
			Abnormality in the VOFS DC/DC converter
6	Y DCDC PD	FOV DDIVE Assu	Abnormality in the VPRST DC/DC converter
0	T DCDC PD	50Y DRIVE Assy	Abnormality in VC_15V DC/DC converter
	V CLIC DD	FOV DDIVE Assu	Abnormality in the DK module
7	Y SUS PD	50Y DRIVE Assy	Abnormality in the control signal line
8	Address PD	50 ADDRESS Assy	Short-circuiting of Vadr TCP damaged
_	V DDIVE DD	FOY DDIVE Assu	Connectors disconnected between the DIGITAL and the X DRIVE Assys
9	X-DRIVE PD	50X DRIVE Assy	Abnormality in the 16.5 V power
10	X DCDC PD	FOY DDIVE Assu	Abnormality in VC_15V power
10	X DCDC PD	50X DRIVE Assy	Abnormality in VXNRST power
			Abnormality in the DK module
11	X SUS PD	50X DRIVE Assy	Abnormality in the control signal line
			Connectors disconnected between the POWER SUPPLY Unit and the X DRIVE Assy

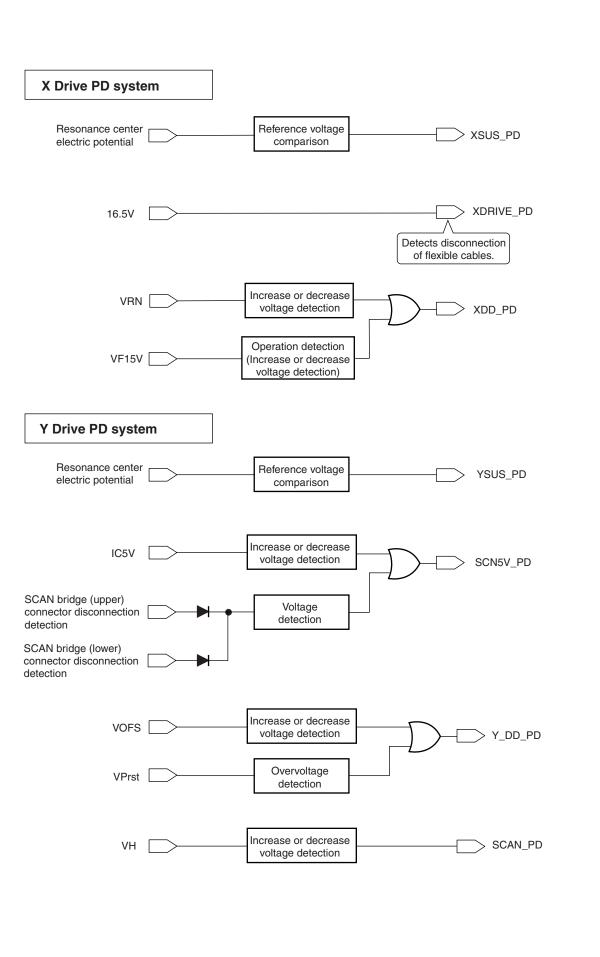
■ How to distinguish which connector is disconnected

Assy	Connector	To which Assy the Connector is Connected	Frequency of LED Flashing	Screen Display
	CN1001	50 DIGITAL Assy	11 (XDRIVE)	_
	CN1205	POWER SUPPLY Unit (ADR system power)	_	White (left half of the screen)
50X DRIVE Assy	CN1204	POWER SUPPLY Unit (drive system power)	12 (X-SUS)	_
	CN1206	50 ADDRESS Assy	8 (ADR)	_
	CN2001	50 DIGITAL Assy	3 (SCAN)	_
CN2204	CN2204	POWER SUPPLY Unit (drive system power)	3 (SCAN)	_
50Y DRIVE Assy	CN2206	POWER SUPPLY Unit (ADR system power)	_	White (right half of the screen)
001 B1111 E 7100y	CN2205	50 ADDRESS Assy	8 (ADR)	_
	CN2601	50 SCAN A, B Assy	4 (SCN-5V)	-
50 SCAN A, B Assy	CN2801	50Y DRIVE Assy	4 (SCN-5V)	-
50 ADDRESS	CN1602, CN1802	50 DIGITAL Assy	8 (ADRS)	-
Assy	CN1601, CN1801	50X DRIVE Assy, 50Y DRIVE Assy	8 (ADRS)	-

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■ Block Diagram of the Shutdown Signal

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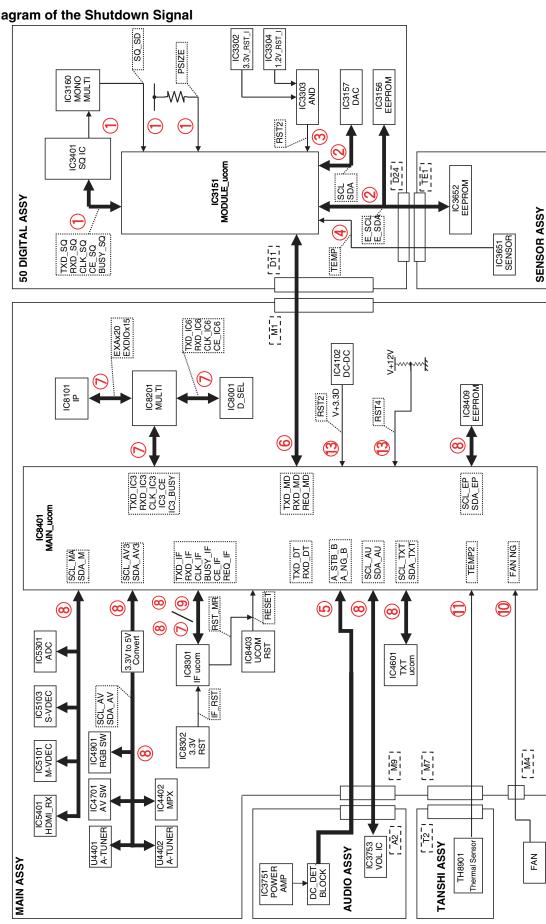
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Note : The figures ① to ③ indicate the number of times the LED flashes when shut-down occurs in the corresponding route.

Block Diagram of the Shutdown Signal

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Frequency of LED Flashing	Major Type	Detailed Type	Log Indication i	Log Indication in Factory Mode MAIN SUB	Checkpoint	Possible Defective Part	Remarks
		Communication error			CLK SOLTXD SO etc	IC3151 IC3401	SO IC communication not established
			_		30 80 20 20 20 20 20 20 20 20 20 20 20 20 20	101001	
Blue 1	Abnormality in the	Drive stop	SQ-IC	SONO	Check if the video sync signal is input to IC3401.	CN3001, IC3401	If the signal detection by the module microcomputer is properly performed, the unit operates on an external sync.
	Sequence Processor	Busy		BUSY	BUSY_SQ	\neg	If BUSY_SQ remains high, a shutdown is generated.
		Incoherent version (hardware, software)		VER-HS	Check the model number of the DIGITAL Assy and the destination of the sequence processor.	: IC3301, IC3401	The written SQ_PROG is incoherent with data on the DIGITAL Assy.
	Failure in IIC	DIGITAL Assy EEPROM		EEPROM	IIC communication line of IC3156	IC3151, IC3156	Check the pull-up resistor of the IIC control line and the power to the corresponding IC.
Blue 2	communication with the	SENSOR Assy EEPROM	MD-IIC	BACKUP	IIC communication line of IC3652	IC3151, IC3652	Check the pull-up resistor of the IIC control line and the power to the corresponding IC.
	module microcomputer	DAC		DAC	IIC communication line of IC3157	IC3151, IC3157	Check the pull-up resistor of the IIC control line and the power to the corresponding IC.
	Abnormality in RST2		O.F.O.C.		Is the output voltage of the DC-DC converter low?	AXY1135	If RST2 does not become high after the unit is turned on, a shutdown will be generated in several seconds.
pine 3	power decrease	-	NS 12	_	The 12 V power is not output.	POWER SUPPLY Unit	Check if V + 12 V is started.
0	High temperature of the			TEMO	Ambient temperature	-	If TEMP1 that is read by the module microcomputer is 75°C or higher, a shutdown will be generated.
Pine 4	panel	-	DN_ N	EMP	Abnormality in the panel temperature sensor	IC3651	Check the connection with the SENSOR Assy.
					Speaker terminals	CN3753, CN3901, JA3901	Check if any speaker cable is in contact with the chassis.
Blue 5	Short-circuiting of the	ı	AUDIO	ı	AUDIO_AMP	IC3751	Check if the AMP output is short-circuited.
	Speakers				Periphery of the cable between A2 and M8	CN3752, CN4007	Check if cables are firmly connected.
	Failure in communication with				Communication line between MAIN and MOD	IC3151, IC8401	Check the communication lines (RXD_MOD/RXD_MOD/REQ_MOD).
Blue 6	the module microcomputer	ı	MODULE	ı	Periphery of the cable between D11 and M2	CN3001, CN4001	Check if cables are firmly connected.
		IF microcomputer		≝	Communication line between IF and MAIN	IC8301, IC8401	Check the communication lines (TXD IF/RXD IF/CLK IF/BUSY IF/CE IF/REQ IF).
i	Failure in main		į	MULTI	Communication line between MULTI M and MAIN	IC8201, IC8401	Check the communication lines (TXD IC3/RXD IC3/CLK IC3/CE IC3/IC3 BUSY).
Blue 7	serial communication	MULTI	MA-SHL	<u>a</u>	Bus communication line between IP and MULTI_M	IC8101, IC8201	Check the communication lines (EXA/EXDIO).
				D SEL	Communication line between D SEL and MULTI M	IC8001, IC8201	Check the communication lines (TXD IC6/RXD IC6/CLK IC6/CE IC6).
		AV Switch		AV-SW	IIC communication line between AV SW and MAIN	IC4701, IC8401	Check the communication lines (SCL AV3/SDA AV3 or SCL AV/SDA AV).
		RGB Switch		RGB-SW	IIC communication line between RGB SW and MAIN	-	Check the communication lines (SCL AV3/SDA AV3 or SCL AV/SDA AV).
	_	Analog Timer		FF1	IIC comminication line between A Tuner and MAIN	114401 IC8401	Check the communication lines (SCI AV3/SDA AV3 or SCI AV/SDA AV)
		Sub VDEC		S-VDEC	IIC communication line between S VDEC and MAIN	IC5103. IC8401	Check the communication lines (SCL MA/SDA MA).
	Failure in IIC	MPX		MPX	NIS Due XAM neeweel enil noitesiunmus 311	IC4402 IC8401	Check the communication lines (SCI AV3/SDA AV3 or SCI AV/SDA AV)
Blie	communication with the	Main VDEC	MA-IIC	M-VDEC	IIC communication line between M VDEC and MAIN	+	Check the communication lines (SCI_MA/SDA_MA)
2	main microcomputer	AD/PLI)	ADC	IIC communication line between ADC and MAIN		Check the communication lines (SCI_MA/SDA_MA)
		INGH INGH		NOT I	II Comminication line between HDMI BY and MAIN	—	Check the comminication lines (SCI MA/SDA MA)
		H		INC.	II CONTINUINCATION III E DETWEEN HOMI - AX AND MAIN		Check the confinding (Color MA).
		X		-X-	IIC communication line between LXT and MAIN	C4601, IC8401	Check the communication lines (SCL_IXI/SDA_IXI).
	_	OFF FEFFOM		MA-EEF	II C communication line between EEP DOM and IMAIN	-	Check the continuities (SUL_IAT/SUA_EF).
		VOLUME IC		AUDIO	IIC communication line between VOL_IC and MAIN	1C3/53, 1C8401	Check the communication lines (SCL_AUDIO/SDA_AUDIO).
		VOLUME IC		AUDIO	Periphery of the cable between A2 and M9	CN3752, CN4007	Check it cables are firmly connected.
Blue 9	Failure in communication with the main microcomputer and unknown	microcomputer and unknown —	MAIN	ı	Communication line between IF and MAIN	IC8301, IC8303, IC8304, IC8401	Check the communication lines (TXD_IF/RXD_IF/CLK_IF/BUSY_IF/CE_IF/REQ_IF).
					Dirt attached to the fan motor	1	Check the fan.
Blue 10	Failure in the fan	I	HAN	1	Periphery of the cable between fan and M4	CN4009	Check if cables are firmly connected.
					Periphery of the fan control regulator	IC8407	I
	od to our toy our dell				Temperature sensor or its periphery	ı	A shutdown is generated if TEMP2 becomes higher than 53°C
Blue 11	riigii terriperature or trie	ı	TEMP2	ı	Periphery of the temperature sensor	TH8801, Q8806	TEMP2
					Periphery of the cable between T1 and M6	CN8804, CN4005	Check if cables are firmly connected.
	Digital Tuner				Failure in the system IC or its peripheral circuit	IC2000	Check for short-circuited/open communication line (M12 TXD_DT/RXD_DT)
Blue 12	The unit will not be shut down, the log is recorded	ı	DTUNER				
	Failure in the POWER	DC-DC converter power decrease		M-DCDC	DC-DC converter or its periphery, RST2	IC4102, Q4106	Check if V + 3.3 V is started.
Blue 13	SUPPLY Unit	POWER SUPPLY	MA-PWR	BEI AY	The 12 V power is not output, RST4	1	Check if V + 12 V is started.
					Periphery of the cable between P8 and M2	CN4002	Check if cables are firmly connected.

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5.4 NON-FAILURE SYMPTOMS

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■ Information on symptoms that do not constitute failure

Symptom	Cause, item to check, information
HDMI: Symptoms concerning the input format and setting	s
The picture color for an INPUT 3 or 4 signal is not correct.	The color setting for INPUT 3 or 4 is not compatible with that of the output equipment. Check whether the color setting is YPbPr or RGB.
The video signal to INPUT 3 or 4 is not displayed, and a message is displayed.	A unsupported video signal is input. Example: 1080p @ 60Hz
The audio signal input to the INPUT 3 or 4 pin jack is not output.	The audio setting for INPUT 3 or 4 is "AUTO," and a video signal is not input. If the audio setting is "AUTO," to output an analog audio signal, the DVI signal must be input via a DVI-HDMI conversion cable. When the DVI equipment is connected, the analog signals are selected with the setting "AUTO."
No sound of signals to INPUT 3 or 4 is output.	The setting on the side of the HDMI output equipment is wrong. Example: Dolby Digital
MONITOR video output	
The video output signal from the MONITOR connector is deteriorated. Or when the video output signal from the MONITOR connector is recorded, its playback picture is deteriorated.	The video signal output from the MONITOR connector is Macrovision protected.
The video signal is not output when the component signal is input to INPUT 2.	The video signal is not output from the MONITOR connector when the component signal is selected.
The video signal is not output when the video signal is input to INPUT 3 or 4.	The video signal is not output from the MONITOR connector when the HDMI signal is selected.
MONITOR audio output	
The image displayed on the PDP is not synchronized with the sound from the MONITOR audio output.	The audio signal from the MONITOR connector is synchronized with the video output signal from the MONITOR connector.
DIGITAL audio output	
Playback of the signal from the DIGITAL audio output connector is possible, but recording is not possible.	The video signal output from the DIGITAL connector is copy-protected.
The video output signal from the DIGITAL connector is not synchronized with that from the MONITOR video output.	The digital audio output signal from the DIGITAL connector is synchronized with the video signal that is currently displayed, and not with the MONITOR video output.
Miscellaneous	
The no-signal off function is not activated.	The no-signal off function is effective only while a video signal is being input.
The no-operation off function is not activated.	The no-operation off function is effective only while a video signal is being input.
Power management does not function.	Power management is effective only while a signal is being input from a PC.
The AUTO SETUP function is not activated.	The AUTO SETUP function is effective only while a signal is being input from a PC.
Control via the SR connector is not possible.	A failure in wrong connection of the cable to the SR audio connector is suspected.
The audio signal from the PC is not output.	A failure in wrong connection of the cable to the PC connector is suspected.
The picture-quality setting (AV Selection) is not stored.	The picture-quality setting is stored for each input. As the setting is changed when another input is selected, the user may have a false idea that the setting is not stored.
The picture size changes arbitrary.	The Auto Size setting is set to ON (default is OFF).
The display position of the screen slightly changes every time the unit is turned on.	The orbiter function for minimizing the effects of phosphor burn is activated. As ON/OFF of this function can only be changed on the Integrator menu, turning off of this function by a user is not possible.
The video signal to the S video connector is not displayed.	Although S video input is selected on the menu, the cable is connected via a component video input connector whose function type is the same as S video input.
The video signal to the composite video connector is not displayed.	Although the composite video input is selected on the menu, the cable is connected via a component video connector or S video connector whose function type is the same as the composite video input.

SUPPLEMENT: On the video setting for HDMI

There are three types of HDMI output formats: color difference 4:4:4, color difference 4:2:2, and RGB4:4:4.

(The proportions, such as 4:4:4 and 4:2:2, represent those of the amount of data for video signal components. For example, as for color difference 4:4:4, the proportion of the amount of data as for Y, Cb, and Cr is 4:4:4.)

It is required to make the settings of the PDP according to the settings of the output equipment. For usual operation, however, set them to AUTO. If the color is inappropriate, make the settings manually.

In the HDMI system, video signals are coded at 24 bits per pixel and transmitted as a series of 24-bit pixels. In a case of color difference 4:4:4, Y, Cb, and Cr use 8 bits each. In a case of color difference 4:2:2, Y, Cb, and Cr use 12 bits each, but Cb and Cr are transmitted at a half sampling rate of Y. This unit is capable of processing the upper 10 bits out of 12 bits of video data. Recent high-end DVD players, such as Pioneer DV-79AVi, are capable of outputting 10-bit colordifference signals. In general, it is said that picture quality for color difference 4:2:2 format is assumed to be higher, because human eyes are more sensitive to luminance than to colors. In the case of RGB4:4:4, R, G, and B use 8 bits each.

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SIDE Assy SIDE KEY Assy 50 Y SUB DRIVE SENSOR Assy 50 X SUB DRIVE Assy Assy OWER SUPPLY 50 DIGITAL Assy 50 Y MAIN DRIVE 50 X MAIN DRIVE 0 PDP-507XD only Assy Assy AUDIO MAIN Assy R07 DT Assy Assy 50 ADDRESS S Assy PC Assy 50 ADDRESS L 50 ADDRESS S 50 ADDRESS L Assy Assy Assy LED IR Assy TANSHI SP TERMINAL 50 LED Assy Assy Assy • Front view • Front view

• Rear view

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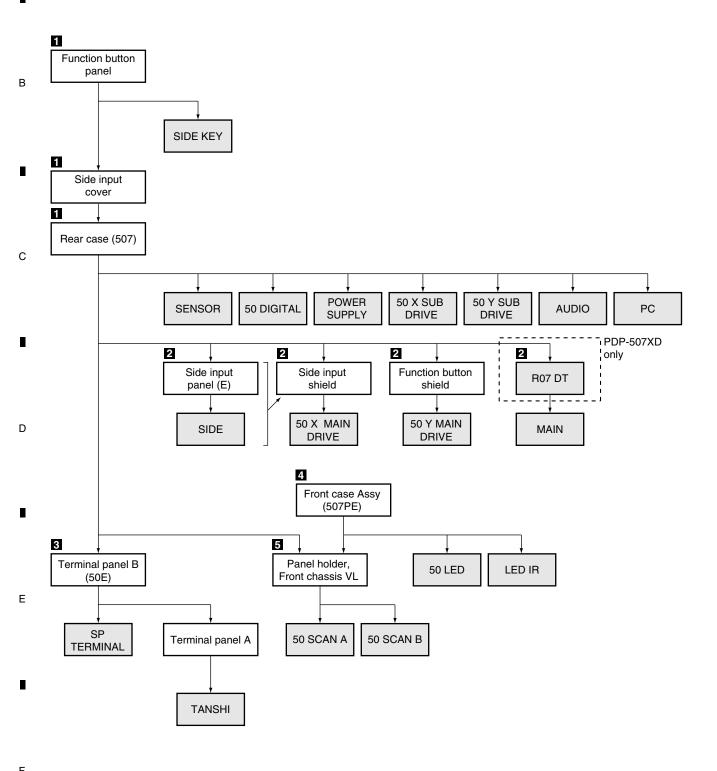
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6.2 FLOWCHART OF THE MAIN PARTS AND PC BOARDS EXCHANGE

Note: Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

Chart of removal order for the main parts and boards

It is efficient to proceed with removal of the main parts and boards in the order shown in the chart below:



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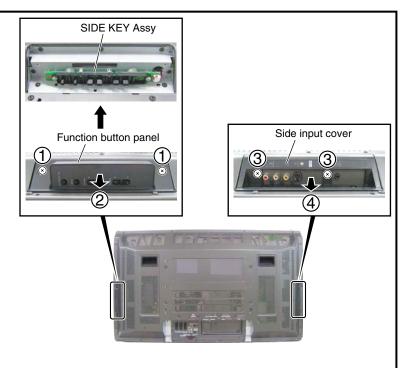
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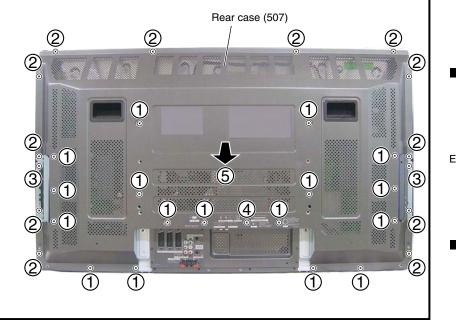
- Function button panel
- 1 Remove the two screws.
- Remove the function button panel.
- Side input cover
- (3) Remove the two screws.
- (4) Remove the side input cover.





• Rear case (507)

- (1) Remove the 17 screws. (AMZ30P060FTB)
- (2) Remove the 12 screws. (TBZ40P080FTB)
- Remove the two screws. (ABA1332)
- (4) Remove the one screw. (ABA1341)
- (5) Remove the rear case (507).





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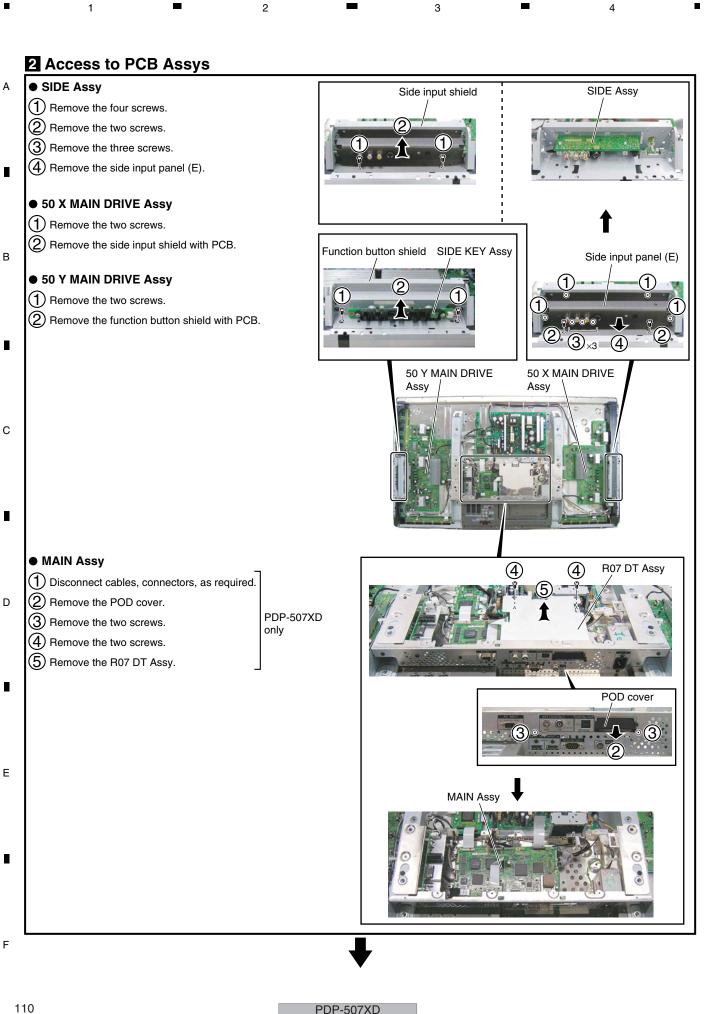
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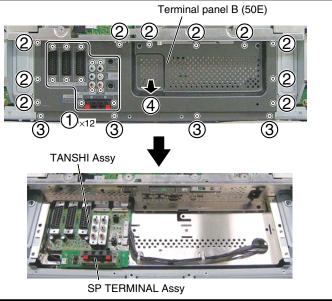
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- 1 Remove the 12 screws.
- (2) Remove the 10 screws.
- 3 Remove the four screws.
- (4) Remove the terminal panel B (50E).

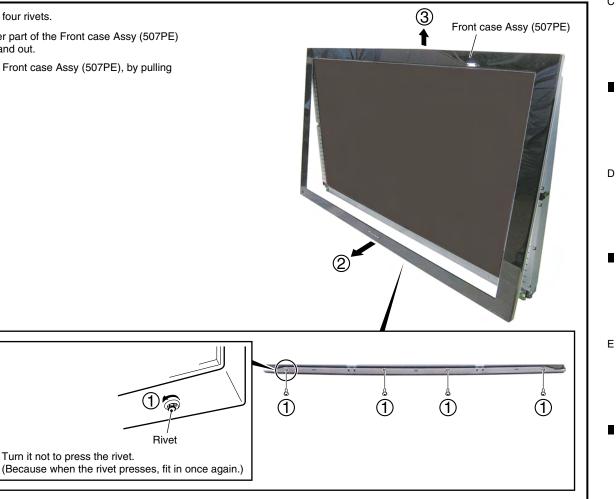




4 Front Case Assy (507PE)

- 1 Remove the four rivets. 2 Pull the lower part of the Front case Assy (507PE) toward you and out.
- ${\color{red} oldsymbol{3}}$ Remove the Front case Assy (507PE), by pulling it upward.

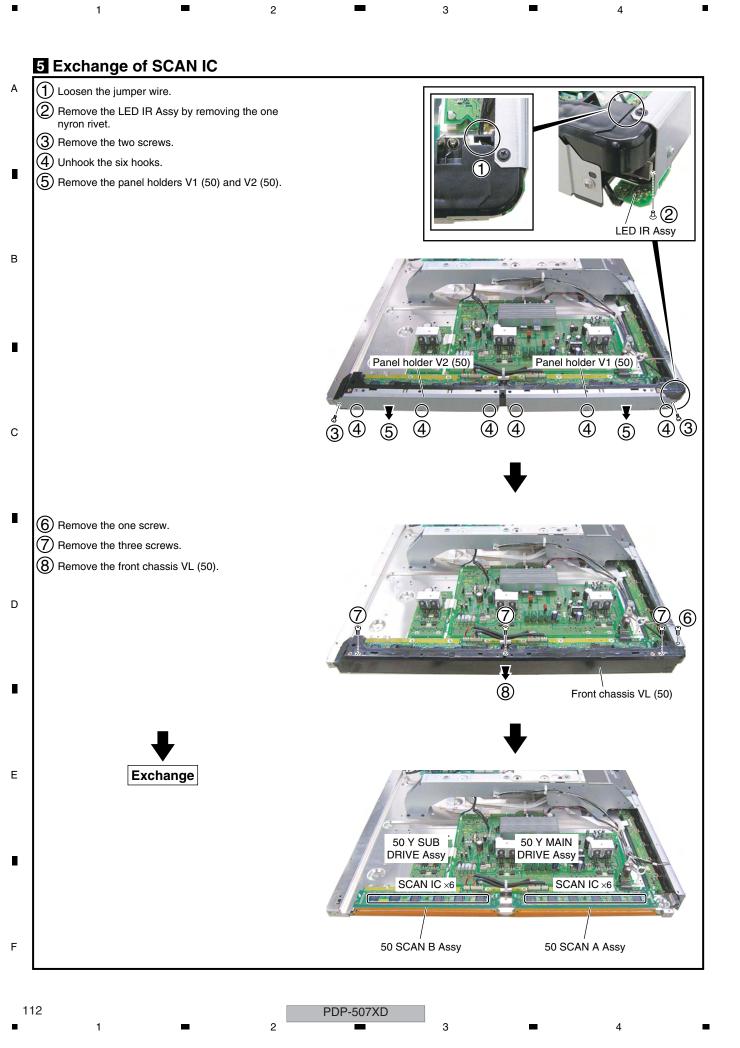
Turn it not to press the rivet.





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Rivet



7. ADJUSTMENT

7.1 PARTS CHANGE OF NOTES



1. At shipment, the unit is adjusted to its best conditions. Normally, it is not necessary to readjust even if an assembly is replaced. If the adjustment is shifted or if it becomes necessary to readjust because of part replacement, etc., perform the adjustment as described below.

2. Any value changed in Service/Factory mode will be stored in memory as soon as it is changed. Before readjustment, take note of the original values for reference in case you need to restore the original settings.

3. Use a stable AC power supply.

7.2 ADJUSTMENT REQUIRED WHEN THE SET IS REPAIRED OR REPLACED

■ When any of the following assemblies is replaced **POWER SUPPLY Unit** Refer to "7.7 HOW TO CLEAR HISTORY DATA". Writing of backup data is required. 50 DIGITAL Assy Refer to the "7.4 BACKUP WHEN THE PANEL UNIT IS ADJUSTED. " 50X MAIN DRIVE Assy No adjustment required 50X SUB DRIVE Assy No adjustment required 50Y MAIN DRIVE Assy No adjustment required 50Y SUB DRIVE Assy No adjustment required Refer to "7.5 ADJUSTMENTS WHEN THE SERVICE Service Panel Assy PANEL ASSY IS REPLACED" and "7.7 HOW TO CLEAR HISTORY DATA". Switching to SR+ from RS-232C MAIN Assy Writing of backup data is required. **SENSOR Assy** Refer to the "7.4 BACKUP WHEN THE PANEL UNIT IS ADJUSTED. ' **TANSHI Assy** No adjustment required R07 DT Assy (PDP-507XD only) No adjustment required

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7.3 ADJUSTMENT REQUIRED WHEN PART IS REPLACED

Notes on replacing parts

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For the parts described in the list below, replacement is required for the whole Assy, not only the defective part. If any part listed below is identified as defective and needs replacement, replace the whole Assy, and make necessary adjustments after replacement.

Reason: The whole Assy must be replaced, because adjustments and data rewriting for the Assy at the level of production line are required.

DOD Assw No	Franctica None	Р	arts that Require Whole-A	ssy Replacement
PCB Assy No.	Function Name	Ref No.	Function Name	Part No.
		IC3151	Module microcomputer	AGC1011
ANA//A/4 4 0 0	FO DICITAL Accus	IC3401	Sequence IC	PEG239A
AWW1139	50 DIGITAL Assy	IC3301	Flash memory	AGC1009
		IC3156	EEPROM	BR24L04FJ-W
AWW1140	SENSOR Assy	IC3652	EEPROM	BR24L02FJ-W
		IC4603	Flash ROM	AGC1020
		IC4701	AV switch	R2S11002AFT
		IC4901	RGB switch	R2S11001FT
		IC5101	Main VDEC	UPD64015GM-UEU
ANAD (004.0	MAIN Assy	IC5103	Sub VDEC	TVP5150AM1PBS
AWV2318		IC5301	A/D converter	AD9985KSTZ-110
		IC5403	EEPROM	BR24L02FJ-W
		IC5404	EEPROM	BR24L02FJ-W
		IC8202	Flash ROM	AGC1019
		IC8301	Flash UCOM	AGC1016
		IC8402	Flash ROM	AGC1018

	POWER SUPPLY Unit	→	The assembly must be replaced as a unit, and no part replacement is allowed.
D	MAIN Assy	→	No adjustment is required after replacement of parts other than those mentioned above.
	50 DIGITAL Assy	→	No adjustment is required after replacement of parts other than those mentioned above.
•	50X MAIN DRIVE Assy	→	No adjustment is required after replacement of parts other than those shown in "7.6 ADJUSTMENTS WHEN THE DRIVE ASSYS ARE REPLACED".
	50X SUB DRIVE Assy	→	No adjustment required
E	50Y MAIN DRIVE Assy	→	No adjustment is required after replacement of parts other than those shown in "7.6 ADJUSTMENTS WHEN THE DRIVE ASSYS ARE REPLACED".
	50Y SUB DRIVE Assy	→	No adjustment required
	50 ADDRESS Assy	→	No adjustment required
	SENSOR Assy	→	No adjustment is required after replacement of parts other than those mentioned above.
	TANSHI Assy	→	No adjustment required
F	R07 DT Assy (PDP-507XD only)	→	This assembly must be replaced as a unit, and no part replacement is allowed.

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7.4 BACKUP WHEN THE PANEL UNIT IS ADJUSTED

Outline

Adjustment data are stored in the EEPROM (IC3156/4K) on the DIGITAL Assy in the production process. Those adjustment data are also automatically stored in the EEPROM (for backup: IC3652) on the SENSOR Assy.

If the DIGITAL Assy is replaced, those adjustment data for backup can be copied from the EEPROM on the SENSOR Assy to a new DIGITAL Assy.

Backed up data

- Drive voltage adjustment value
- Hour-meter count
- Pulse-meter count
- Panel white balance adjustment value

- Serial No.
- Drive waveform adjustment value
- P-ON counter value
- PD/SD histories

■ How to copy backup data

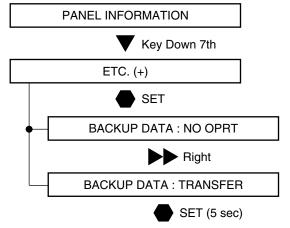
1. When the DIGITAL Assy is replaced with one for service (usual service)

Adjustment data can be restored by copying the data backed up in the SENSOR Assy to the EEPROM on a new DIGITAL Assy.

The EEPROM on the new DIGITAL Assy has no adjustment data, and the EEPROM for backup in the SENSOR Assy has adjustment data. After replacing the DIGITAL Assy, enter PANEL FACT. mode, display the PANEL INFORMATION page, then check if "NO DATA!" is set for "DIG. EEP" and "ADJUSTED" is set for "BACKUP". Then, proceed in the following steps:

(1) Copying, using the Factory menu

- ① Plug in the AC cord, press the Power switch on the unit to set it to ON, then enter Standby mode.
- 2 Turn on the power, using the remote control unit, then enter Panel Factory mode. Copy the backup data, as shown in the figure below.



3 Turn the power off.

- After the DIGITAL Assy is replaced with one for service, be sure to check if "NO DATA!" is set for "DIG. EEP" on the PANEL INFORMATION page of the PANEL FACT. mode.
- . If copying of the backup data fails in the above procedure, the red LED lights, and the blue LED flashes, as a warning that no backup data were copied.
- · If both the DIGITAL and SENSOR Assys are to be replaced, first replace the SENSOR Assy, turn the unit on and back off again, then replace the DIGITAL Assy.

(2) Copying, using the RS-232C commands

- ① Switch the RS-232C/SR+ setting to RS-232C so that RS-232C commands can be received.
- 2 Turn on the unit, using the remote control unit or by issuing the PON command. Then issue the FAY command.
- ③ Issue the BCP command to transfer the data stored in the EEPROM for backup.
- 4 Turn the power off.

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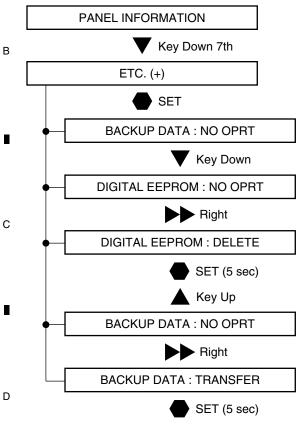
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2. When a secondhand DIGITAL Assy that had been mounted in another product is to be reused

As adjustment data for another product are already stored in the secondhand DIGITAL Assy, first delete those data then copy the backup data stored in the EEPROM on the SENSOR Assy.

(1) Copying, using the Factory menu

- ① Plug in the AC cord, press the Power switch on the unit to set it to ON, then enter Standby mode.
- 2 Turn on the power, using the remote control unit, then enter Panel Factory mode. Copy the backup data, as shown in the figure below.



3 Turn the power off.

Note:

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If the secondhand DIGITAL Assy is mounted in the product then the unit is turned on then back off again, the data in the EEPROM on the DIGITAL Assy are copied over the EEPROM in the SENSOR Assy. Thus the backup data can never be restored. During the first power-on after the DIGITAL Assy is replaced, be sure to enter Factory mode to copy the backup data. Or, before removing the secondhand DIGITAL Assy from the original product, delete the adjustment data on it, using the Factory mode (DIGITAL EEPROM: DELETE), mount it to the product to be repaired, then copy the data from the backup EEPROM.

(2) Copying, using the RS-232C commands

- ① Switch the RS-232C/SR+ setting to RS-232C so that RS-232C commands can be received.
- 2 Turn on the unit, using the remote control unit or by issuing the PON command. Then issue the FAY command.
- 3 Issue the UAJ command to delete data stored in the EEPROM on the DIGITAL Assy.
- 4 Issue the BCP command to transfer the data stored in the EEPROM for backup.
- 5 Turn the power off.

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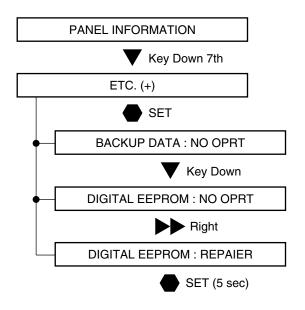
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Note: In this section, it is assumed that settings for various items have been completed, using Factory menu or RS-232C commands.

(1) Method using the Factory menu

- ① Set various setting/adjustment values.
- 2 Proceed in the following steps.



3 Turn the power off.

Note:

When a DIGITAL Assy with an EEPROM in which adjustment data are stored is mounted, this step is not required after manual adjustment. ("DIGITAL EEPROM: REPAIR" is not indicated.)

(2) Method using the RS-232C commands

Issue the FAJ command.

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7.5 ADJUSTMENTS WHEN THE SERVICE PANEL ASSY IS REPLACED

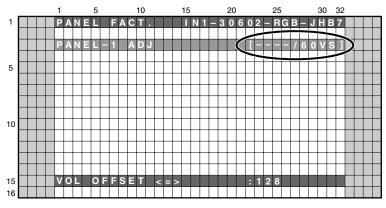
Flowchart for panel replacement

After replacing the panel with one for service, readjustment of the Vofs voltage margin is required.

[Preparations]

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- Basically, the Panel Factory menu is used for the voltage margin adjustment.
- The 60-Hz video sequence is used as the drive sequence.
- While adjusting the voltage margin using the Panel Factory menu, the current drive sequence is indicated on the screen, as shown below. Make sure that "60VS" is always indicated during adjustment.



Example of the OSD while the Panel Factory menu is displayed

[Supplement]

- When the raster mask for margin adjustment is displayed during Panel Factory mode, the Panel White Balance is set to default, and the Panel Gamma is set to Straight in the "PANEL-1 ADJ" layer.

 On the third line, the OSD reads "- - /****" (**** stands for the type of the drive sequence set).
- If you perform adjustment using RS-232C commands, use the commands shown below. These commands are different from those used during Factory Menu mode.

PAV S00 : Used to set the Panel Drive mode to Factory.

VFQ S03 : Used to set the Drive Sequence to Video 60 Hz.

WBI S01 : Used to temporarily set the adjustment value of the Panel WB to default. (To return the value to its original

value, use WBI S00.)

PGM S00 : Used to set the gamma setting to Factory.

Note: If the power is shut off in the process of the adjustment procedures, send the above commands again.

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OUTLINE

Mode switching

Switch modes to start the voltage adjustment, as follows:

Enter Factory mode.

Display RST MASK 01 (white).

MKS S51

Voltage setting-

Set Vsus and Vyprst, and tentatively set Vofs:

VOL SUS : Set to 137 (205[V]). **VOL RST P**

: Set to the voltage indicated

on the panel label.

VOL OFFSET: Tentatively set to the voltage indicated on the panel label.

VSU137 VRP*** VOF***

Perform aging with the fully white screen for 30 minutes

To prevent an error caused by the temperature characteristics and to let the unit show its full properties after letting it sit, perform aging for 30 minutes to raise the panel temperature to a certain extent. This ensures the accuracy of inspection and adjustment.



Actual Vofs adjustment (2 to 4) -

Measuring the upper limit of Vofs

Signals to be measured: red 760, red 1023+, green 1023, and blue 1023

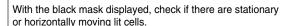
Vofs setting

Aging

In a case where the upper limit of Vofs is less than 49: Vofs set voltage = Upper limit value of Vofs - 9 [V]

In a case where the upper limit of Vofs is 49 or more: Vofs set voltage = 40 [V]

CA check with black



Confirmation of settings

Check that each voltage value is correctly set.

Command transfer

After the voltage adjustment is finished, make the following settings:

Mask: OFF, Factory: OUT

CA check-

Check that the picture is properly displayed.

Use DVD, LD, and broadcast signals for checking.

Ranges of the adjustable voltages

(Ranges of the adjustable voltage when the upper and lower limits of each voltage are to be checked in this flowchart)

Vsus = 205 [137] [V]

Vofs = 15 [005] to 60 [246] [V]

Vyprst = 250 [013] to 300 [128] [V]

Vxnrst = 180 [V] Vh = 130 [V]

Vadr = 60 [V]

Ranges of the voltage settings

(Ranges of voltage settings for this unit)

Vsus = 205 [137] [V]

Vofs = 28 [075] to 48 [182] [V]

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Vyprst = 260 [036] to 300 [128] [V]

Vxnrst = 170 [V]

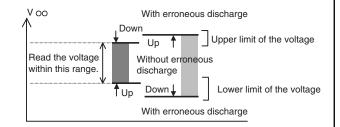
Vh = 130 [V]

Vadr = 60 [V]

When calculating the voltage, round off the fractional part.

(For circuit protection, it is desirable to set the voltage to a lower value.)

For margin measuring, be sure to read the value within the hysteresis (stricter value).



The Definition of Abnormal Cells

Abnormal bright cells: Within five cells on screen.

(fewer than 2 cells within a radius of 1 cm)

Abnormal dark cells: Under fifteen cells on screen.

(fewer than 2 cells within a radius of 1 cm)

Count abnormal cells at a distance of 1 m from panel.

If abnormal cells won't occur longer than one second, do not count the abnormal cells.

Do not count still dark cells and bright cells.

Standard settings of the unit at shipment:

Vsus setting = 205 [137] [V]

Vsus margin = 17 [V] or more

Vofs setting = 28 [075] to 48 [182] [V]

Vofs margin = 19 [V] or more

Vyprst setting = 260 [036] to 300 [128] [V]

Note: The voltages in the flowcharts are given in absolute values (without \pm).

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 ① Preparations -**Initial setting** After turning the unit on, enter Factory mode. with command PAV S00 VFQ S03 WBI S01 PGM S00 В Display RST MASK 01 (white). MKS S51 Voltage setting Set VOL SUS to 137 (Vsus = 205 V). VOL RST P: Set to the voltage indicated on the panel label. (See the conversion table for the electronic VR.) VOL OFFSET: Tentatively set to the voltage indicated on the panel label. (See the conversion table for the electronic VR.) D **Aging** Perform aging with the fully white screen for 30 minutes To prevent an error caused by the temperature characteristics and to let the unit show its full properties after letting it sit, perform aging for 30 minutes to raise the panel temperature to a certain extent. This ensures the accuracy of inspection and adjustment. (To 2) Ε

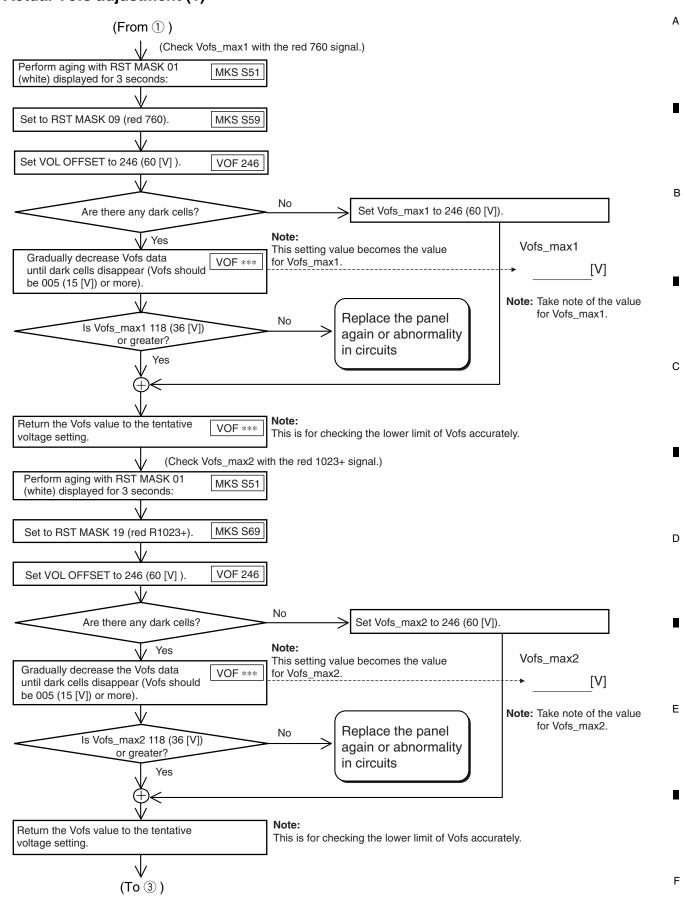
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2 Actual Vofs adjustment (1)

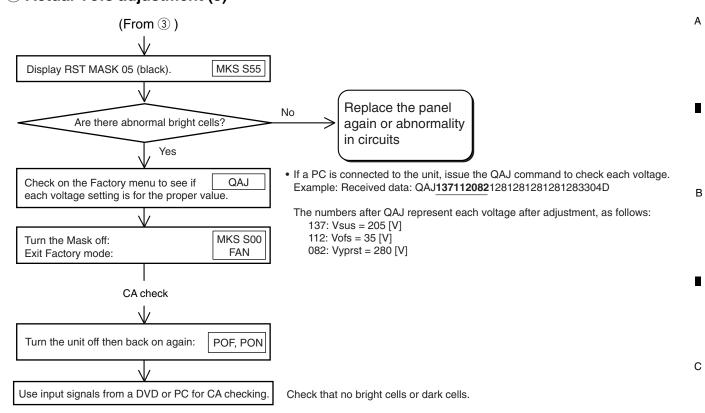


3 Actual Vofs adjustment (2) (From ②) Α (Check the upper limit of Vofs with the green 1023 signal.) Set to RST MASK 03 (green 1023). MKS S53 Set VOL OFFSET to 246 (60 [V]). VOF 246 No Are there any dark cells? Set Vofs_max3 to 246 (60 [V]). Note: Vofs_max3 This setting value becomes the value Gradually decrease the Vofs data VOF *** for Vofs_max3. until dark cells disappear (Vofs should be 005 (15 [V]) or more). Note: Take note of the value for Vofs_max1. Replace the panel No Is Vofs_max3 118 (36 [V]) again or abnormality or greater? in circuits / Yes (Check the upper limit of Vofs with the blue 1023 signal.) Set to RST MASK 04 (blue 1023). MKS S54 Set VOL OFFSET to 246 (60 [V]). VOF 246 Are there any dark cells? Set VOL OFFSET_max4 to 246 (60 [V]). Note: This setting value becomes the value Vofs_max4 Gradually decrease the Vofs data VOF *** for Vofs_max4. until dark cells disappear (Vofs should [V] be 005 (15 [V]) or more). Note: Take note of the value for Vofs_max2. Replace the panel Is Vofs_max4 118 (36 [V]) again or abnormality or greater? in circuits Vofs_max Set the lowest voltage among Vofs_max1, Vofs_ [V] max2, Vofs_max3, and Vofs_max4 as Vofs_max. Yes Is Vofs_max 187 (49 [V]) Value for Vofs = 139 (40 [V]) or greater? Value for Vofs = Vofs_max - 48 (9 [V]) Set the value as Vofs. (To 4)

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■ Conversion charts for electronic VRs (Vprst/Vofs)

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Vprst [V]	Setting value [STEP]
250	013
251	015
252	018
253	020
254	022
255	024
256	027
257	029
258	031
259	034
260	036
261	038
262	040
263	043
264	045
265	047
266	050
267	050
268	052
269	056
270	059
271	061
272	063
273	066
274	068
275	070
276	073
277	075
278	077
279	079
280	082
281	084
282	086
283	089
284	091
285	093
286	096
287	098
288	100
289	102
290	105
291	107
292	109
293	112
294	114
295	116
296	119
297	121
298	123
299	126
300	128
300	120

Vofs [V]	Setting value [STEP]
15	005
16	011
17	016
18	021
19	027
20	032
21	037
22	043
23	048
24	054
25	059
26	064
27	070
28	075
29	080
30	086
31	091
32	096
33	101
34	107
35	112
36	118
37	123
38	128
39	134
40	139
41	144
42	150
43	155
44	160
45	166
46	171
47	176
48	182
49	187
50	192
51	198
52	203
53	208
54	214
55	219
56	224
57	230
58	235
59 240	
60	246

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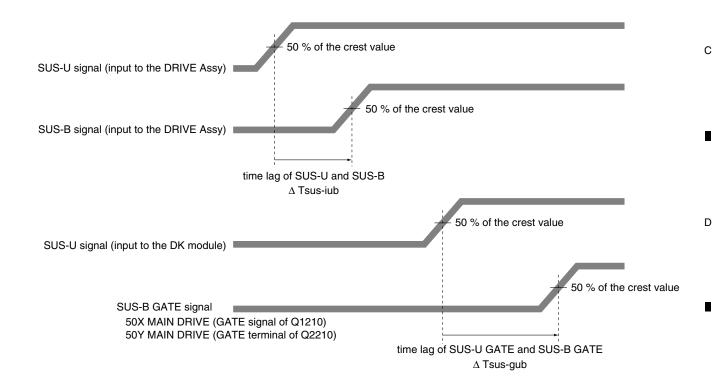
7.6 ADJUSTMENTS WHEN THE DRIVE ASSYS ARE REPLACED

■ Waveform adjustments required when replacing the following parts of the 50X MAIN DRIVE and 50Y MAIN DRIVE Assys.

Assy Name	Ref No.	Part Name	Part Category	Remarks
50X MAIN DRIVE Assy	IC1205	PS9117P	Photo Coupler	
	IC1204	TND307TD	FET Driver	
50Y MAIN DRIVE Assy	IC2104	TND307TD	FET Driver	
	IC2209	PS9117P	Photo Coupler	
	IC2208	TND307TD	FET Driver	

■ TIME LAG ADJUSTMENT OF THE CONTROL SIGNAL (SUS-B)

- ① Measure the time lag for the SUS-U signal to the SUS-B signal.
- ② Check the time lag for the SUS-B GATE signal to the SUS-U GATE signal. Adjust the variable control so that the time lag of GATE becomes " time lag of input signal + $\alpha \pm 5$ nsec." **Note:** For details on measuring points of waveform, see the figure below.



time lag of SUS-U gate and SUS-B gate : Δ Tsus-gub

Adjust so that " Δ Tsus-gub = Δ Tsus-iub + α ± 5 nsec," using the variable controls shown in the table below:

Assy	VR	Value of α
50X MAIN DRIVE ASSY	VR1001	70 nsec
50Y MAIN DRIVE ASSY	VR2001	50 nsec

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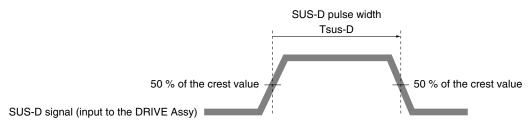
■ DELAY ADJUSTMENT OF THE CONTROL SIGNAL (SUS-D)

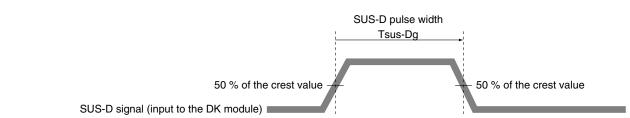
1) Measure the pulse width of the SUS-D signal.

② Check the pulse width of the SUS-D input signal for the DK module. Adjust the variable control so that the pulse width of the SUS-D input signal for the DK module becomes the "pulse width of the SUS-D signal \pm 5 nsec."

3

Note: For details on measuring points of waveform, see the figure below.





SUS-D pulse width: Tsus-Dg

Adjust so that "Tsus-Dg = Tsus-D \pm 5 nsec," using the variable control shown in the table below:

Assy	VR	
Y MAIN DRIVE	VR2002	

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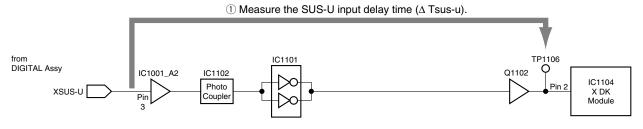
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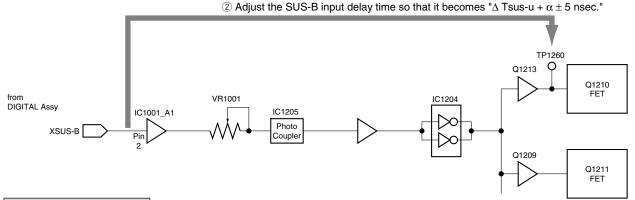
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■ SUS-B ADJUSTMENT

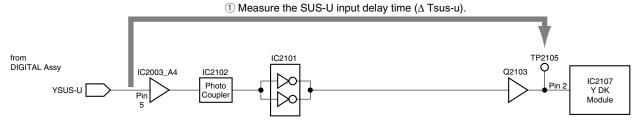
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50X MAIN DRIVE Assy

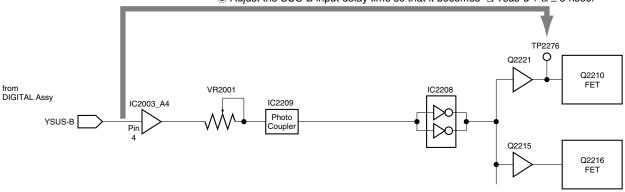




50Y MAIN DRIVE Assy



② Adjust the SUS-B input delay time so that it becomes " Δ Tsus-u + $\alpha \pm 5$ nsec."



SUS-D ADJUSTMENT

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50Y MAIN DRIVE Assy

① Measure the SUS-D pulse width (Tsus-D).

② Adjust the pulse width of the SUS-D input signal for the DK module so that it becomes "Tsus-D ± 5 nsec."

TP2107
YSUS-D
Pin
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IC2104

IC2107
Y DK
Module

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7.7 HOW TO CLEAR HISTORY DATA

Clearance of various logs after the Assys are replaced

Besides adjustment data, data on accumulated power-on time and logs on defective parts of the product are backed up. Some of those data must be cleared after the Assys are replaced for service.

(1) Clearance of logs, using the RS-232C commands

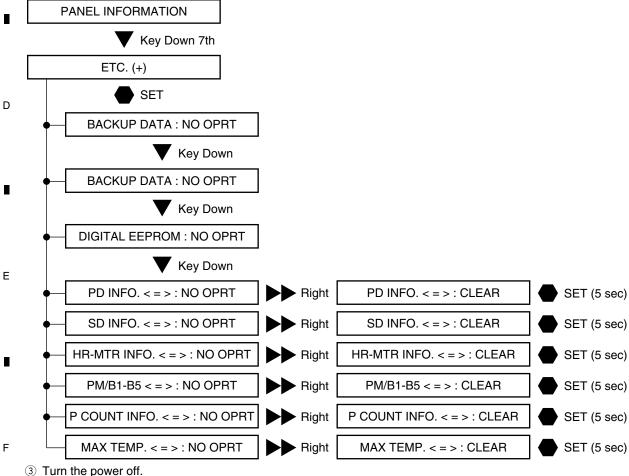
Item	Content	When the Panel is replaced	When the POWER SUPPLY Unit is replaced	When the Other parts is replaced	RS-232C Commands
Hour-meter	Accumulated power-on time	Must be cleared	No need to be cleared	No need to be cleared	СНМ
Pulse-meter	Accumulated number of pulses emitted	Must be cleared (mandatory)	No need to be cleared	No need to be cleared	СРМ
Shutdown history	Cause of an SD and hour-meter count	Must be cleared	No need to be cleared	No need to be cleared	CSD
Power-down history	Cause of an PD and hour-meter count	Must be cleared	No need to be cleared	No need to be cleared	CPD
Power-on counter	Relay-on count	No need to be cleared	Must be cleared (mandatory)	No need to be cleared	CPC
MAX TEMP	Historical max. temperature	Must be cleared	Must be cleared	Must be cleared	СМТ

Notes: • As the pulse-meter count is used for each correction function, it must be cleared when an Assy relevant to correction functions is replaced.

• When clearing logs, using the RS-232C commands, first enter Factory mode (by issuing FAY or PFY), then issue the corresponding command.

(2) Clearance of logs, using the Factory menu

- ① Plug in the AC cord, press the Power switch on the unit to set it to ON, then enter Standby mode.
- ② Turn on the power, using the remote control unit, then enter Panel Factory mode. Delete various logs, as shown in the figure below.



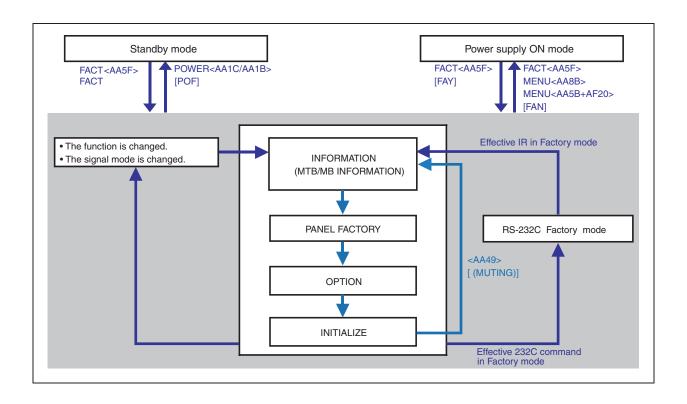
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8. SERVICE FACTORY MODE

8.1 OUTLINE OF THE SERVICE FACTORY

8.1.1 SERVICE FACTORY MODE TRANSITION CHART



8.1.2 HOW TO ENTER/EXIT SERVICE FACTORY MODE

- How to enter Service Factory Mode and do it go out.
 - How to enter Service Factory Mode.

By using a control unit for servicing)

• Service remote control : press[FACTORY1]key.

By using RS-232C commands)

• Standby mode : Send [PON]+[FAY] .

• Power supply ON mode : Send[FAY] .

■ How to come off Service Factory Mode.

By using a control unit for servicing)

Service remote control : press [FACTORY1] key.
 Remote control : press [HOME MENU] key.

By using RS-232C commands)

• Send [FAN] .

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8.1.3 OPERATION OF SERVICE FACTORY MODE

■ Fuctions whose setting are set to OFF

No.	Function	Remarks
1	2-Screen Operation	Input function set on the main side is selected
2	FREEZE	
3	Mask Control	MTB/MB is none. It becomes processing on the PANEL side.
4	ORBITER	Central value operation

User data

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User data will be treated as follows:

• User data on picture-quality and audio-quality adjustments are not reflected, and factory-preset data are output (user data will be retained in memory). When the unit enters Service Factory mode, the current audio-quality adjustment data will be still be retained in memory.

3

- As to data on various settings, user data will be applied to the items that are associated with signal format change (screenize switching, etc).
- Data on screen (i.e., screen position; meaning clock dividers, and not including data on screen size).
 Are reset to the default values (data stored in memory will be retained).
 Screen size will be retained.

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SR/R Keys	Basic Functions	Remarks
MUTING	Switching the main items.	Shifting to the next main item (top).
↓ (DOWN) (Note1)	Switching the subtitled items.	Shifting downward to the next subtitiled item.
↑ (UP) (Note1)	Switching the subtitled items.	Shifting upward to the next upper layer.
← (LEFT) (Note1)	Decreasing the adjustment value.	Decreasing the adjustment value.
→ (RIGHT) (Note1)	Increasing the adjustment value.	Increasing the adjustment value.
ENTER/SET (Note1)	Switching the layers.	Shifting downward or upward to the next lower or upper layer.
INPUT	Selecting INPUT.	Shifting the INPUT to the next function.
INPUTxx (Note1)	Selecting INPUT.	Switching the INPUT to xx. (xx=1 to 6 etc)
CH+/P+	Increasing the channel number.	Advanving
CH-/P-	Decreasing the channel number.	
Numeric Keys	Function: TV	Function: TV (previously selected channel number is selected)
POWER	Power OFF.	Turning the power off.
FACTORY	Factory OFF (Factory mode)	In Factory mode, turning Factory mode off.
FACTORY	Factory ON (Non-Factory mode).	In Non-Factory mode, turn Fuctory mode on.
HOME MENU (Note1)	Menu ON.	In Factory mode, turn Factory mode off.
VOLUME+	Volume UP.	Increasing 10 the adjustment value. (PANEL FACTORY)
VOLUME-	Volume DOWN.	Decreasing 10 the adjustment value. (PANEL FACTORY)
DRIVE ON/OFF (Note2)	Drive Mode OFF.	Turning Drive mode off.
INTEGRATOR (Note1)	INTEGRATOR MENU ON.	Enter INTEGRATOR MODE.

- (Note 1) A pertinent key that exists in the service remote control becomes effective only in the factory mode and the integrator mode. Please use the remote control of the attachment when you normally operate it in the mode (home menu operation etc.).
- (Note 2) When ten seconds have passed since the [DRIVE ON/OFF] key was pressed at the standby, it becomes invalid.

 Please press [POWER] key from the [DRIVE ON/OFF] key pressing within ten seconds when you do power supply ON while driven OFF.







PDP-507XD



PDP-507XA

8.1.5 FACTORY HIERARCHICAL TABLE

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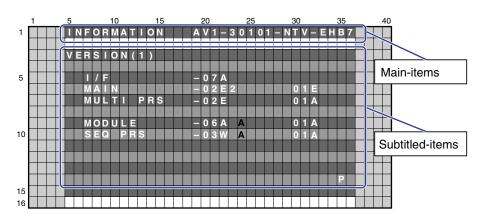
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Large Ite	em				
g	Middle Item		Variable / Adjustment Range	Remarks	
		Small Item			
8.2.1 INF	ORMATION	1			
	8.2.1.1 VERSION (1) 8.2.1.2 VERSION (2)				
	8.2.1.3 MAIN NG	CLEAR <=>	OFF <=> ON		
	8.2.1.4 TEMPERATURE				
	8.2.1.5 HOUR METER				
	8.2.1.6 HDMI SIGNAL INFO 1				
	8.2.1.7 HDMI SIGNAL INFO 2				
	8.2.1.8 VDEC SIGNAL INFO				
8.2.2 PAN	NEL FACTORY (+)	T			
	8.2.2.1 PANEL INFORMATION				
	8.2.2.2 PANEL WORKS				
	8.2.2.3 POWER DOWN 8.2.2.4 SHUT DOWN				
	8.2.2.5 PANEL-1 ADJ (+)	X-SUS B <=>	120 to 136	Equivalent to XSB	
	0.2.2.3 1 AIVEE-1 ADV (+)	Y-SUS B <=>	120 to 136	Equivalent to YSB	
		Y-SUSTAIL T1 <=>	120 to 136	Equivalent to YTG	
		Y-SUSTAIL T2 <=>	120 to 136	Equivalent to YTB	
		Y-SUSTAIL W <=>	120 to 136	Equivalent to YTW	
		XY-RST W1 <=>	120 to 136	Equivalent to RSW	
		XY-RST W2 <=>	120 to 136	Equivalent to RYW	
		VOL SUS <=>	000 to 255	Equivalent to VSU	
		VOL OFFSET <=>	000 to 255	Equivalent to VOF	
		VOL RST P <=>	000 to 255	Equivalent to VRP	
		SUS FREQ. <=>	MODE 1 to MODE 8	Equivalent to SFR	
	8.2.2.6 PANEL-2 ADJ (+)	R-HIGH <=>	000 to 511	Equivalent to PRH	
		G-HIGH <=>	000 to 511	Equivalent to PGH	
		B-HIGH <=>	000 to 511	Equivalent to PBH	
		R-LOW <=>	000 to 999	Equivalent to PRL	
		G-LOW <=>	000 to 999	Equivalent to PGL Equivalent to PBL	
		ABL <=>	000 to 999 000 to 255	Equivalent to ABL	
	8.2.2.7 PANEL REVISE (+)	R-LEVEL <=>	LV-0 to LV-7	Equivalent to RRL	
	U.Z.Z.7 TAIVEETIEVIOE (+)	G-LEVEL <=>	LV-0 to LV-7	Equivalent to RGL	
		B-LEVEL <=>	LV-0 to LV-7	Equivalent to RBL	
	8.2.2.8 ETC. (+)	BACKUP DATA <=>	NO OPRT <=> TRANSFER or ERR	Equivalent to BCP	
		DIGITAL EEPROM <=>	NO OPRT <=> DELETE/REPAIR	Equivalent to FAJ/UAJ	
		PD INFO. <=>	NO OPRT <=> CLEAR	Equivalent to CPD	
		SD INFO. <=>	NO OPRT <=> CLEAR	Equivalent to CSD	
		HR-MTR INFO. <=>	NO OPRT <=> CLEAR	Equivalent to CHM	
		PM/B1-B5 <=>	NO OPRT <=> CLEAR	Equivalent to CPM	
		P COUNT INFO. <=>	NO OPRT <=> CLEAR	Equivalent to CPC	
		MAX TEMP. <=>	NO OPRT <=> CLEAR	Equivalent to CMT	
	8.2.2.9 RASTER MASK SETUP (+)	MASK OFF		Equivalent to MKS+S00	
		RST MASK 01 <=>	<pre><=> 48V <=> 50V <=> 60V <=> 60P <=> 70P <=> 72V <=> 75V <=></pre>	Equivalent to MKS+S51	
		POT 144 OK 04	00P <=> 70P <=> 72V <=> 75V <=>	• • • · · · · · · · · · · · · · · · · ·	
	0.0.10 DATTEN MACK CETUD (1)	RST MASK 24 <=>		Equivalent to MKS+S74	
	8.2.2.10 PATTEN MASK SETUP (+)	MASK OFF	<=> 48V <=> 50V <=> 60V <=>	Equivalent to MKS+S00	
		PTN MASK 01 <=>	60P <=> 70P <=> 72V <=> 75V <=>	Equivalent to MKS+S01	
		PTN MASK 39 <=>		Equivalent to MKS+S39	
	8.2.2.11 COMBI MASK SETUP (+)	MASK OFF		Equivalent to MKC+S00	
	O.E.E. TT GOINET NIN GIT GET GT	CMB MASK 01 <=>	<=> 48V <=> 50V <=> 60V <=>	Equivalent to MKC+S01	
		•••	60P <=> 70P <=> 72V <=> 75V <=>	•••	
		CMB MASK 10 <=>		Equivalent to MKC+S10	
.2.3 OP	TION				
	8.2.3.1 EDID WRITE MODE <=>			Exclusively used for	
	8.2.3.2 CH PRESET <=>			production line	
.2.4 INIT	TALIZE				
	8.2.4.1 SYNC DET (+)			for the technical analysis	
	8.2.4.2 SG MODE <=>		SG OFF <=> • • •		
	8.2.4.3 SG PATTERN <=>		SG PATTERN <=> COLOR BAR 1 •••		
	8.2.4.4 SIDE MASK LEVEL (+)	R MASK LEVEL <=>	000 to 255		
		G MASK LEVEL <=>	000 to 255		
		B MASK LEVEL <=>	000 to 255		
	8.2.4.5 FINAL SETUP (+)	DATA RESET <=>	OFF <=> ON		
	8.2.4.6 CVT AUTO <=>	INTO DOC4 (0. 77)	000 4- 055		
	8.2.4.7 HDMI INTR POSITION (+)	INTR-POS1 (0x75) <=>	000 to 255	Exclusively used for technical analysis	
		INTR-POS2 (0x76) <=>	000 to 255	(details omitted)	
				1 ,	
		INTR-POS3 (0x77) <=> INTR-POS4 (0x78) <=>	000 to 255 000 to 255		

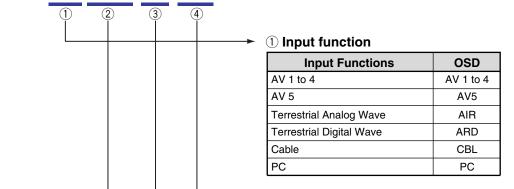
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8.1.6 INDICATIONS IN SERVICE FACTORY MODE



■ Main-item indications



2 SIG mode and Screen size

Note: See SIG-Mode Tables. (See next page.)

→ ③ Color system and Signal type

Color System and Signal Type	OSD1	OSD2			
NTSC	NTV	NTS			
PAL	PLV	PLS			
PAL M	PMV	PMS			
PAL N	PNV	PNS			
SECAM	SCV	SCS			
4.43 NTSC	4NV	4NS			
BLACK/WHITE	BWV	BWS			
Y/CB/CR	CBR				
Y/PB/PR	PBR				
RGB	RGB				
Digital Video signal	DIG				

Note: OSD1 (Composite input), OSD2 (S-Connector input)

4 Option (Destination, Panel Generation, etc.)

Options	OSD
Step-up D system	EHB7
Step-up A system	ESB7

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② SIG Mode and Screen size (by User is displayed)

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1st and 2nd characters: Resolutin of the input signal
3rd and 4th characters: Refresh rate of the input signal
5th character: Selection of the screen size

■ Input signal mode table for video signals (resolutions and V frequencies)

1st to 4th	Character	Signal Type	Fv (Hz)	Fh (kHz)
10	50	SDTV*525i	60.000	15.750
	60	SDTV*525i	60.000	15.750
20	50	SDTV*625p	60.000	31.500
	60	SDTV*525p	60.000	31.500
30	50	HDTV*1125i	60.000	33.750
	60	HDTV*1125i	60.000	33.750
40	50	HDTV*750p	60.000	45.000
	60	HDTV*750p	60.000	45.000
50	24	HDTV*1125p	24.000	27.000

Fv: Vertical Frequency, Fh: Horizontal Frequency

3

■ Input signal mode table for PC signals (resolutions and V frequencies)

1st to 4th	Character	Signal Type	Fv (Hz)	Fh (kHz)					
C1	70	720 x 400	70.087	31.469					
	60		59.940	31.469					
C2	72	640 x 480	72.809	37.861					
	75		75.000	37.500					
	56		56.250	35.1556					
C4	60	800 x 600	60.317	37.879					
L C4	72	000 X 000	72.188	48.077					
	75		75.000	46.875					
	60		60.004	48.363					
C7	70	1024 x 768	70.069	56.476					
	75		75.029	60.023					
C9	60	1360 x 768	60.015	47.712					

Fv: Vertical Frequency, Fh: Horizontal Frequency

■ Current selection of the screen size

5th Character	GUI Notation	VIDEO	PC	Remarks
0	DOT BY DOT	-	•	
1	4:3	•	•	
2	FULL (FULL1)	•	•	
3	ZOOM	•	-	
4	CINEMA	•	-	
5	WIDE	•	-	
6	FULL 14:9	•	_	
7	CINEMA 14:9	•	_	
8	FULL2	_	•	

●: supported, -: unsupported

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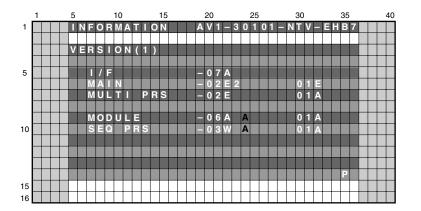
8.2 FACTORY MENU

8.2.1 INFORMATION

Operation items

No.	Function/Display	Context	RS-232C Command
1	VERSION (1)	The software versions for each microcomputer are displayed. (Common part)	QS1
2	VERSION (2)	The Flash memory versions for each device are displayed. (Individual part)	QS6
3	MAIN NG	The Shutdown Message ID/Event Times in Main Microcomputer are displayed.	QNG
4	TEMPERATURE	The Temperature/FAN rotating status in Main Microcomputer are displayed.	QMT
5	HOUR METER	The HOUR METER/P-COUNT information are displayed.	QIP
6	HDMI SIGNAL INFO 1	The Information of HDMI information files are displayed.	
7	HDMI SIGNAL INFO 2	The information of Fibral information med are displayed.	_
8	VDEC SIGNAL INFO	Display the Signal Information on VDEC.	_

8.2.1.1 VERSION (1)



Microcomputer	Item Name	Display Example (Execution program block)	Display Example (Boot block)					
I/F microcomputer	I/F	-07A	_					
Main microcomputer	MAIN	-02E2	01E					
Multi processor	MULTI PRG	-02E2	01A					
Module microcomputer	MODULE	-06A_A	01A					
Sequence processor	SEQ PRS	-03W_A	01A					

Note: In the 29-32 rows, the Boot version information on each device is displayed.

In the 19-24 rows, the version of the execution program is displayed.

At the position "14x35", The Past/Highly effective panel distinction information is displayed.

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8.2.1.2 VERSION (2)

Step-up D

Flash Device	Item Name	Display Example
Digital Tuner	DTB	20D
TeleTEXT	TEXT	SUB V3.01
User Password	PASSWORD	1234

1 5 10 15 20 25 30 35 40

1 NFORMATION AV1-30601-NTV-ETB7

Step-up A

Flash Device	Item Name	Display Example
TeleTEXT	TEXT	SUB V3.01
User Password	PASSWORD	1234

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8.2.1.3 MAIN NG

1 5 10 15 20 25 30 35 40

1 INFORMATION AV1-30601-NTV-EHB7

MAIN NG

MAIN SUB 00151H21M

2 MA-IIC FE1 00031H50M

2 MA-IIC AV-SW 00013H03M

3 MA-SRL D-SEL 00002H52M

4 MAIN ----- 00001H58M

10 5 TEMP2 ----- 00000H07M

15 7

MTB side's Shutdown NG information

OSD: MAIN	OSD: SUB	Cause of Shutdown
AUDIO		
MODULE		Failure of communication to Module microcomputer.
MA-SRL		3-wire Serial Communication of Main microcomputer.
	IF	Communication failure of IF microcomputer
	MULTI1	Multi Processor communication failure (MULIT1)
	I/P	Multi Processor communication failure (I/P)
	D-SEL	Multi Processor communication failure (D-SEL)
MA-IIC		IIC Communication failure of Main microcomputer
	FE1	Analog Tuner 1 (Front End 1)
	MPX	MPX
	AUDIO	
	AV-SW	AV Switch
	RGB-SW	RGB Switch
	M-VDEC	Main VDEC
	S-VDEC	Sub VDEC
	ADC	AD/PLL
	HDMI	HDMI
	TX-COM	TX communication failure
	TX-BSY	TX Busy
	MA-EEP	64k EEPROM
MAIN		Communication failure of Main microcomputer &Unknown Error
FAN		Fan stopped
TEMP2		Abnormally high temperature at MTB.
DTUNER		Failure of Digital Tuner
PS/RST		Failure to DTB Starting
	RETRY	DTB communication failure.
MA-PWR	M-DCDC	Abnormally in RST2 of MTB. (power decrease of DC-DC converter)
	RELAY	Relay Power Supply

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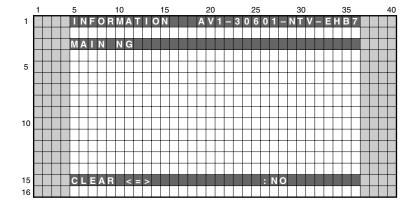
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■ 2 **■** 3 **■** 4

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Operation:

Even if [←] key or [→] key is pressed, "CLEAR ⇔ YES" ⇔ "CLEAR ⇔ NO" is repeated. If the [ENTER] key is kept on pressing for 5 second when the status of this menu is <YES>, clear process will begin.

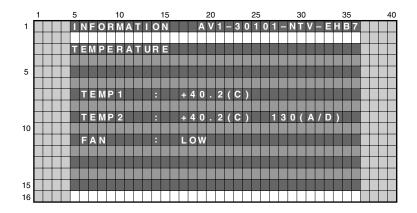
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8.2.1.4 TEMPERATURE

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A present temperature and the FAN rotation are displayed. If either [←] key or [→] key is pressed, the display data is refreshed.



• Display/Meaning

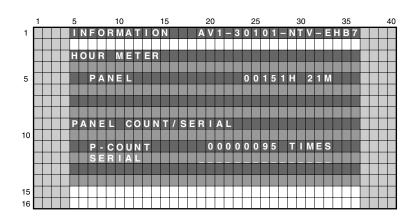
TEMP1: The temperature of the sensor on the panel side is displayed by the centigrade.

TEMP2: The temperature conversion display is done with 10bit the A/D input value of Main uCON 76 pin (AN0). It is displayed by both the centigrade (C) and 8bit A/D value.

(Remark: When temperature (C) of the sensor becomes more than a specified temperature, the shutdown start of processing.)

FAN : The value of the Fan rotating state is displayed. STOP : stopped, LOW: slow speed, HIGH: high speed.

8.2.1.5 HOUR METER



• Display/Meaning

Meaning	Item Name	Display Example	Corresponding RS-232C Command
HOUR METER (PANEL)	PANEL	00151H 21M	QIP
POWER ON COUNTER	P-COUNT	00000095 TIMES	QIP
SYSTEM SERIAL	SERIAL		QIP

Note 1: The SYSTEM SERIAL displays only FHD. It corresponds by sticking the seal in G7 model.

 $\textbf{Note 2:} \ \ \textbf{The PANEL-side's HOUR METER/P-COUNT acquires information from the PANEL-side.}$

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8.2.1.6 HDMI SIGNAL INFO (1)

1 5 10 15 20 25 30 35 40

1 INFORMATION AV1-10601-NTV-EHB7 H

HDMI SIGNAL INFO 1

0 X 60 - 4 E:80 0 X 68 - 4 6:00 0

- 4 F:07 - 4 8:00 0

- 5 0:1 c - 4 8:00 0

- 5 1:0 2 - 8 4:00 0

- 5 5:07 - 8 7:00 0

10 0 X 68 - 2 A:00 0

- 3 0:0 2 0 X 60 - 3 A:98

- 3 1:0 a - 3 B:0 8

- 4 4:5 1 - 3 C:3 3

Displays the input signal information of HDMI terminal

Device	SA	Context
0×60	-4E:	Video information: valid horizontal pixel numbers (low order bit)
	-4F:	Video information: valid horizontal pixel numbers (high order bit)
	-50:	Video information: valid vertical line numbers (low order bit)
	-51:	Video information: valid vertical line numbers (high order bit)
	-55:	Video information: interlace/non-interlace, sink polarity
0×68	-2A:	Audio information: PCM/non PCM, copyright protected or not
	-30:	Audio information: sampling frequency
	-31:	Audio information: sampling bit rate
	-44:	Audio information: color space
	-45:	Video information: aspect ratio
	-46:	Video information: scaling
	-47:	Video information: video format
	-48:	Video information: pixel count
	-84:	Audio information: channel count
	-85:	Audio information: not used (zero at all times)
	-86:	Audio infromation: not used (zero at all times)
	-87:	Audio information: speaker allocation
	-88:	Audio information (down mix prohibit flag)
0×60	-3A:	Video information: valid horizontal pixel numbers (low order bit)
	-3B:	Video information: valid horizontal pixel numbers (high order bit)
	-3C:	Video information: valid vertical line numbers (low order bit)
	-3D:	Video information: valid vertical line numbers (high order bit)

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8.2.1.7 HDMI SIGNAL INFO (2)

	1	5						10 15						20						25				30					35					40							
1					Γ	N	I	3	0	R	М	Α	T	1	0	N				Α	۷	1	-	3	0	1	0	1		N	T	٧		E	Н	В	7			I	
				L	L																																			Щ	
				L	G	I	1	И	П		S	П	G	Ν	Α	L		П	Ν	F	0		2																		
			L	L	L	ш	l																																	4	
5				L					Н		R	Ε	S	:	2	2	0	0				С	0	L		S	P	:	4	2	2										
					Ш		ı		٧		R	囯	S	:	0	5	6	3				С	0	L	М	囯	П	:	7	0	9										1
				Π		П	I		H		D	Ε			1	9	2	0				Α	S	P	Е	С	Т		1	6		9								П	1
			Г	Г	П	Т	I		٧		D	囯		8	0	5	4	0				Α	С		П	٧	Ξ	8													1
				Г			I		П	N	Т	R	L	:	П	Ν	Т					s	а	m	е		а	s		р	i	С	t								1
10				Г			T		٧		P	0	L	:	P	0	S					٧		E	М	П		:													1
				Г	ı		Ī		Н		P	0	L	:	P	0	S					1	9	2	0	х	1	0	8	0	i	@	6	0							1
				Г	П		I	Ī	Α	U	D	П	0	1	4	8	k					P	П	Х		R	P	а	0	0											1
				Г			Ī								Р	С	М					S	0	U	R	С	Ε	:	P		0	Ν	Ε	Е	R						
				Г	П	П	I								2	0	b	П	t			D	٧	R		D	T	9	0												1
15				Г	Г	Т	T	T		Г	Г		Г				Г	Г		Г				Г	Г		Г														1
16																																									

Displays input signal status of MVDEC terminal

Display Item	Meaning
H RES	Number of horizontal pixels (decimal)
V RES	Number of vertical lines (decimal)
H DE	Number of effectively horizontal pixels (decimal)
V DE	Number of effectively vertical lines (decimal)
INTRL	Intetlace (=INT) or progressive (=PRG)
V POL	VSYNC polarity
H POL	HSYNC polarity
AUDIO (first line)	Sampling frequency. (ex. DVD: 48kHz, CD: 44.1kHz) *1
AUDIO (second line)	PCM (PCM) or No PCM (=no PCM)
AUDIO (third line)	Quantization bit
COL SP	Color space (AVI Info) (422 or 444 or RGB) *2
COLMET	Colormetry (AVI Info) (SD: 601, HD:709) *2
ASPECT	Aspect (AVI Info)
ACTIVE	Video active format (AVI Info)
V FMT	Video identification code (AVI Info)
PIX RP	Pixel repeat value for 2880 dot
SOURCE (first line)	Vendor name of the emission device
SOURCE (second line)	Model name of the emission device

^{*1:} Please confirm whether to be displayed here when the sound is not emitted.

Display of HDMI FACTORY and correspondence of resolution

Please confirm the following 5 items when the picture doesn't come out.

Input	FACTORY Display				
Signal	H RES	V RES	H DE	V DE	V FMT
480i (525i)	858	262 or 263	720	240	720x480i @ 60
480p (525p)	858	525	720	480	720x480p @60
1080i (1125i)	2200	562 or 563	1920	540	1920x1080i @ 60
720p (750p)	1650	750	1280	720	1280x720p @ 60

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^{*2:} There is a possibility of not suitable for the state of the source equipment when the color is amusing.

8.2.1.8 VDEC SIGNAL INFO

Displays input signal status of VDEC terminal.

Device	SA	Context
	00h	Signal distinction result 1
	01h	Signal distinction result 2
	02h	Flag detection output
	15h	Noise level distinction 1
MVDEC	16h	Noise level distinction 2
	17h	Non-standard signal detection
	18h	Subcarrier signal detection
	19h	ACC data output
	1Ah	ACC information output
	1Dh	Input signal mode
	88h	Status register 1 (TV/VCR status)
SVDEC	89h	Status register 2 (Macrovision detection, etc.)
	8Ah	Status register 3 (Front-end AGC gain value)
	8Bh	Status register 4 (Subcarrier to horizontal (SCH) phase)
	8Ch	Status register 5 (Signal distinction)

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8.2.2 PANEL FACTORY MODE

■ Operation Items

This is the menu screen for the adjustment of the panel. Data acquisition and value adjustment can be performed for the following items:

No.	Indication	Description of functions
8.2.2.1	PANEL INFORMATION	Data, such as the version of the microcomputer of the panel, product serial number, and statuses of memories for adjustment values for the main unit and for backup, are displayed.
8.2.2.2	PANEL WORKS	Operation data, such as accumulated pulse-meter count, accumulated hour-meter count, accumulated power-on count, and the temperature detected by the sensor, are displayed.
8.2.2.3	POWER DOWN	The power-down history is displayed, with the hour-meter values that indicate the hour values when power-downs occurred.
8.2.2.4	SHUT DOWN	The shutdown history is displayed, with the hour-meter values that indicate the hour values when shutdowns occurred.
8.2.2.5	PANEL-1 ADJ (+)	Settings of the driving pulse timing and driving voltage can be performed.
8.2.2.6	PANEL-2 ADJ (+)	White balance and ABL (power consumption) for the panel can be set.
8.2.2.7	PANEL REVISE (+)	The level for correction of panel degradation can be set.
8.2.2.8	ETC. (+)	Copying of backup data and clearance of various data can be performed.
8.2.2.9	RASTER MASK SETUP (+)	The mask indication (RASTER) can be set and indicated.
8.2.2.10	PATTEN MASK SETUP (+)	The mask indication (PATTERN) can be set and indicated.
8.2.2.11	COMBI MASK SETUP (+)	The mask indication (COMBI) can be set and indicated.

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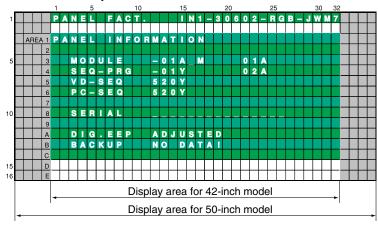
8

■ Details of indications in each layer

• In the following examples, GUI images for a 50-inch model are indicated. Although the display areas for the menu for 42-inch and 50-inch models are different, the items to be displayed are the same.

8.2.2.1 PANEL INFORMATION

• Data, such as the version of the microcomputer of the panel, product serial number, and statuses of memories for adjustment values for the main unit and for backup, are displayed. No other layers are nested below this layer, and there are no adjustment items.



■ Key operation

<DOWN> : Shifting to PANEL WORKS <UP> : Shifting to COMBI MASK SETUP

(+)

<L/R>: Updating displayed information

■ Display items:

В

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Ε

MODULE: The version of data written in the Module microcomputer (IC3151) is indicated.

SEQ-PRG: The version of data written in the Sequence Program Storage Memory (IC3301) is indicated.

: The Drive Sequence version for Video mode is indicated. VD-SEQ PC-SEQ

: The Drive Sequence version for PC mode is indicated.

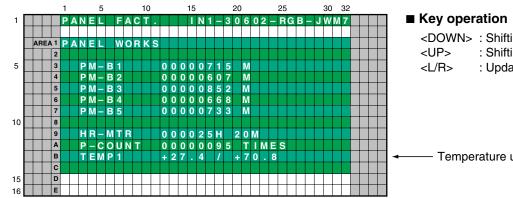
: The serial number of the module is indicated.

DIG.EEP : The adjusted status of the EEPROM that is mounted on the DIGITAL Assy is indicated.

BACKUP: The adjusted status of the EEPROM for backup that is mounted on the SENSOR Assy is indicated.

8.2.2.2 PANEL WORKS

• Data on operations, such as the accumulated pulse-meter counts, hour-meter count, power-on count, and temperature detected by the sensor, are sent back. No other layers are nested below this layer, and there are no adjustment items.

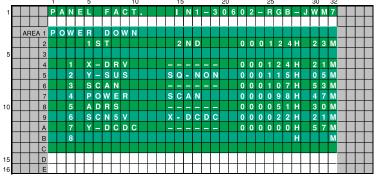


<DOWN> : Shifting to POWER DOWN : Shifting to PANEL INFORMATION : Updating displayed information

Temperature unit is " °C (Centigrade) ".

■ Contents of the Display item

- PM-B1 to B5: The accumulated pulse-meter counts for the 5 blocks on the screen are indicated. (the lowest-order digit represents millions of pulses.)
- HR-MTR: The hour-meter value (accumulated power-on hours) is indicated.
- P-COUNT: The accumulated power-on count is indicated.
- TEMP1: The current panel temperature and the historical maximum temperature recorded in memory are indicated. The range of temperature indication is from -50.0 to +99.9. (The temperature unit is " °C (Centigrade) ".)



■ Key operation

<DOWN> : Shifting to SHUT DOWN <UP> : Shifting to PANEL WORKS <L/R> : Updating displayed information

<Causes of power-down and corresponding OSD indications>

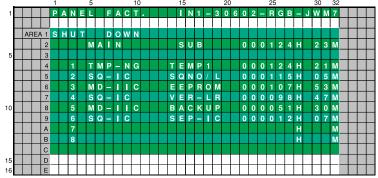
Cause of power-down	OSD Indication	Cause of power-down	OSD Indication
POWER SUPPLY Unit	P-PWR	ADDRESS Assy	ADRS
SCAN Assy	SCAN	X DRIVE Assy	XDRV
5V power for SCAN Assy	SCAN5V	DC/DC converter for X drive	X-DCDC
Y DRIVE Assy	YDRV	X-drive SUS circuit	X-SUS
DC/DC converter for Y drive	Y-DCDC	Specification inability	UNKNOWN
Y-drive SUS circuit	Y-SUS		

- * When power-down is confirmed, the factor is displayed as "1st", "2nd", according to the accuracy order.
- * The power-down history is not recorded when the power-down occurred at the same place and same time.

8.2.2.4 SHUT DOWN

5

The shutdown history is displayed. The last most 8 shutdown histories are displayed with the hour-meter values
that indicate the hours when shutdowns occurred. No other layers are nested below this layer, and there are no
adjustment items.



■ Key operation

<DOWN> : Shifting to PANEL-1 ADJ (+) <UP> : Shifting to POWER DOWN <L/R> : Updating displayed information

* When there is detail information when shutdown occurred, the possible defective part is displayed as Sub information.

<Causes of shut-down and corresponding OSD indications>

Cause of shut-o	lown (MAIN)	Subcategory of Cause of	shut-down (SUB)
Item	OSD Indication	Item	OSD Indication
Drive Sequence Processing IC	SQ-IC	Communication Error	RTRY
		Drive Sequence Stop	SQNO
		Communication Busy	BUSY
		Version Mismatching	VER-HS
MDU-IIC	MD-IIC	MAIN EEPROM Communication Error	EEPROM
		BACKUP EEPROM Communication Error	BACKUP
		DAC Communication Error	DAC
High temperature of the panel	TMP-NG	Temperature NG	TEMP

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В

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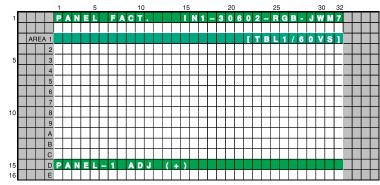
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8.2.2.5 PANEL-1 ADJ (+)

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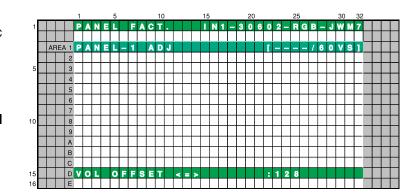
• Timing and voltage for the driving pulse are set. At third line of the screen, the WB (White Balance) table and frequency table indicating operation status are displayed, and at fifteenth line of the screen, the item for the upper nested layer (PANEL-1 ADJ [+]) is displayed. Pressing the SET key shifts the screen to the next nested layer below for item selection.



■ Key operation

<DOWN> : Shifting to PANEL-2 ADJ (+)
<UP> : Shifting to SHUT DOWN
<SET> : Shifting to the next nested layer

- When the screen is shifted to the next nested layer below, the item of the layer above is indicated at third line of the screen, and the item of the layer below is indicated at fifteenth line.
- The configuration of the menu screen is the same for any adjustment item that has lower layers.



■ Key operation

<DOWN> : Shifting to the next item
<UP> : Shifting to the previous item
<RIGHT> : Adding by one to the adjustment/

setting value

<LEFT> : Subtracting by one from the adjustment/setting value

<VOL+> : Adding by 10 to the adjustment/

setting value

<VOL-> : Subtracting by 10 from the

adjustment/setting value

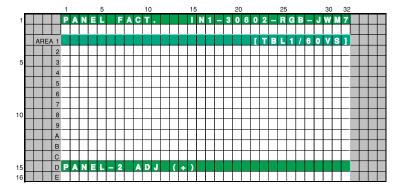
<SET> : Determining the adjustment/setting

value and shifting to the upper layer

8.2.2.6 PANEL-2 ADJ (+)

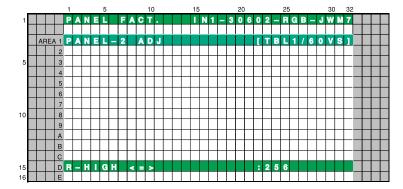
5

• White balance can be adjusted by adjusting R, G, and B gain. Pressing the SET key shifts the screen to the next nested layer below for item selection.



■ Key operation

<DOWN> : Shifting to PANEL REVISE (+) <UP> : Shifting to PANEL-1 ADJ (+) <SET> : Shifting to the next nested layer



■ Key operation

<DOWN> : Shifting to the next item : Shifting to the previous item <RIGHT> : Adding by one to the adjustment/

setting value

<LEFT> : Subtracting by one from the adjustment/setting value

: Adding by 10 to the adjustment/ <VOL+>

setting value

<VOL-> : Subtracting by 10 from the adjustment/setting value

<SET> : Determining the adjustment/setting

value and shifting to the upper layer

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В

С

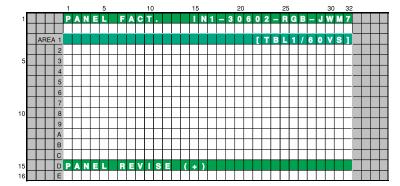
D

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8.2.2.7 PANEL REVISE (+)

В

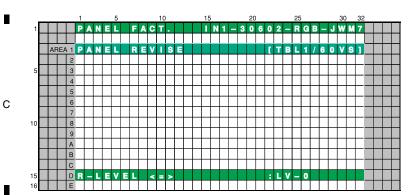
• A setting for panel degradation correction can be made. Pressing the SET key shifts the screen to the next nested layer below for item selection.



■ Key operation

<DOWN> : Shifting to ETC.(+)

<UP> : Shifting to PANEL-2 ADJ (+) <SET> : Shifting to the next nested layer



■ Key operation

<DOWN> : Shifting to the next item
<UP> : Shifting to the previous item
<RIGHT> : Adding by one to the adjustment/

setting value

<LEFT> : Subtracting by one from the

adjustment/setting value

<SET> : Determining the adjustment/setting

value and shifting to the upper layer

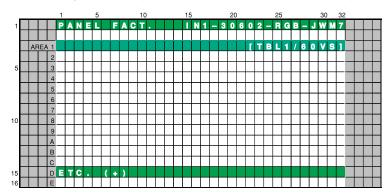
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8.2.2.8 ETC. (+)

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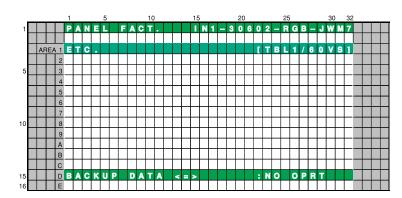
• The setting about the backup of panel adjusting value and various data on panel operational information can be cleared. Pressing the SET key shifts the screen to the next nested layer below for item selection.



■ Key operation

<DOWN> : Shifting to RASTER MASK SETUP

<UP> : Shifting to PANEL REVISE (+) <SET> : Shifting to the next nested layer



■ Key operation

<DOWN> : Shifting to the next item : Shifting to the previous item <RIGHT> : Adding by one to the adjustment/

setting value

<LEFT> : Subtracting by one from the adjustment/setting value

: Determining the adjustment/setting <SET>

value and shifting to the upper layer

В

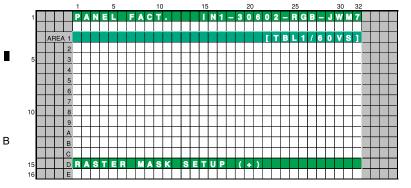
С

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8.2.2.9 RASTER MASK SETUP (+)

• This menu set the RASTER MASK and the drive sequence at RASTER MASK state. Pressing the SET key shifts the screen to the next nested layer below for item selection.



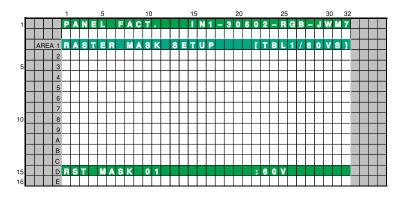
■ Key operation

<DOWN> : Shifting to PATTEN MASK SETUP

(+)

<UP> : Shifting to ETC. (+)

<SET> : Shifting to the next nested layer



■ Key operation

<DOWN> : Shifting to the next MASK <UP> : Shifting to the previous MASK <RIGHT> : Changing MASK sequence (+) <LEFT> : Changing MASK sequence (-) <SET> : Determining the adjustment/setting

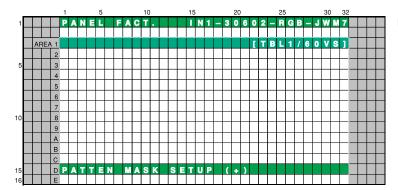
value and shifting to the upper layer

- The MASK indication sequence can be changed among 48V, 50V, 60V, 72V, 75V, 60P, and 70P, using the Right or Left key. The selected sequence and the ABL/WB table are retained until the mask is turned off.
- 48 V and 60 P are deleted from the sequence, and represented by 50 V and 60 V, respectively. The ABL/WB table is changed to the PC table.

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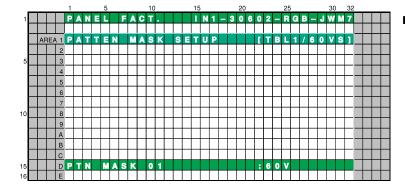
8.2.2.10 PATTEN MASK SETUP (+)

• This menu set the PATTEN MASK and the drive sequence at PATTEN MASK state.



■ Key operation

<DOWN> : Shifting to COMBI MASK SETUP (+) <UP> : Shifting to RASTER MASK SETUP (+) <SET> : Shifting to the next nested layer



■ Key operation

<DOWN> : Shifting to the next MASK <UP> : Shifting to the previous MASK <RIGHT> : Changing MASK sequence (+) <LEFT> : Changing MASK sequence (-) <SET> : Determining the adjustment/setting

value and shifting to the upper layer

В

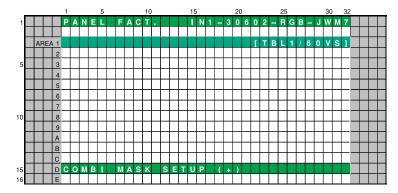
D

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- The MASK indication sequence can be changed among 48V, 50V, 60V, 72V, 75V, 60P, and 70P, using the Right or Left key. The selected sequence and the ABL/WB table are retained until the mask is turned off.
- 48 V and 60 P are deleted from the sequence, and represented by 50 V and 60 V, respectively. The ABL/WB table is changed to the PC table.

8.2.2.11 COMBI MASK SETUP (+)

• This menu set the COMBI MASK and the drive sequence at COMBI MASK state.

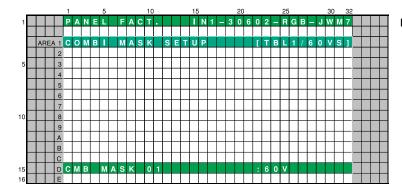


■ Key operation

<DOWN> : Shifting to PANEL INFORMATION
<UP> : Shifting to PATTEN MASK SETUP

(+)

<SET> : Shifting to the next nested layer



■ Key operation

<DOWN> : Shifting to the next MASK <UP> : Shifting to the previous MASK <RIGHT> : Changing MASK sequence (+) <LEFT> : Changing MASK sequence (-) <SET> : Determining the adjustment/setting

value and shifting to the upper layer

- The MASK indication sequence can be changed among 48V, 50V, 60V, 72V, 75V, 60P, and 70P, using the Right or Left key. The selected sequence and the ABL/WB table are retained until the mask is turned off.
- 48 V and 60 P are deleted from the sequence, and represented by 50 V and 60 V, respectively. The ABL/WB table is changed to the PC table.

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8.2.3 OPTION

Operation item

No.	Function	Content	RS-232C
1	EDID WRITE MODE ⇔	DISABLE ⇔ ENABLE	
2	CH PRESET ⇔	USER ⇔ FACTORY	

8.2.3.1 EDID WRITE MODE

Exclusively used for production line.

8.2.3.2 CH PRESET

Exclusively used for production line.

8.2.4 INITIALIZE

Operation item

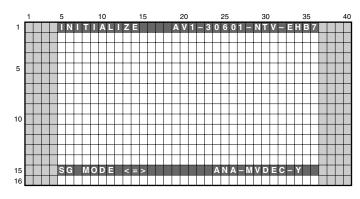
No.	Function	Content	RS-232C
1	SYNC DET (+)	Exclusively used for technical analsyis.	
2	SG MODE ⇔	Paired SG_MODE with SG_PATTERN. Select SG Route.	
3	SG PATTERN ⇔	Paired SG_MODE with SG_PATTERN. Select SG Pattern.	
4	SIDE MASK LEVEL (+)	Configure the color of the side mask.	BSL, GSL, RSL
5	FINAL SETUP (+)	Initialize flash memorys on virgin product status	FST
6	CVT AUTO ⇔	Exclusively used for technical analsyis.	
7	HDMI INTR POSITION (+)	Exclusively used for technical analsyis.	

8.2.4.1 SYNC DET (+)

Exclusively used for technical analysis (details omitted).

8.2.4.2 SG MODE

SG MODE (SG's route selection) / SG PATTERN (signal pattern selection) are used as pair. In SG MODE, select the SG route and then select the SG pattern to be sent by the selected route. In SG MODE, make sure to select the route first.



Operation item

No.	Display	Content
1	SG OFF	SG Mode is OFF.
2	DIG MVDEC YCBCR	MAIN VDEC: YCbCr (Digital output mode)
3	ANA MVDEC Y	MAIN VDEC: Y (Analog output mode: SG VDEC return setting)
4	ANA MVDEC RGB	MAIN VDEC:RGB
5	ANA SVDEC Y	SUB VDEC:Y
6	ANA AD YCBCR	AD: YcbCr (Analog output to the RGB SW)
7	ANA AD RGB	AD: RGB (Analog output to the RGB SW)

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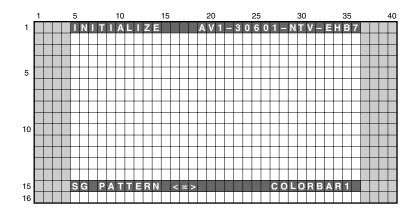
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8.2.4.3 SG PATTERN



Operation item

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No.	Display	SG Pattern (Brightness IRE Level/Color)	No.	Display	SG Pattern (Brightness IRE Level/Color)
1	COLOR BAR1	Colorbar (75%)	11	RASTER4	Raster (75% Green)
2	COLOR BAR2	Colorbar (100%)	12	RASTER5	Raster (75% Magenta)
3	RAMP1	Ramp (100% white)	13	RASTER6	Raster (75% Red)
4	RAMP2	Ramp (100% Yellow)	14	RASTER7	Raster (75% Blue)
5	RAMP3	Ramp (75% Green)	15	RASTER8	Raster (- % Black)
6	RAMP4	Ramp (75% Red)	16	10STEP1	10STEP (100% white)
7	RAMP5	Ramp (75% Blue)	17	10STEP2	10STEP (100% Yellow)
8	RASTER1	Raster (100% White)	18	10STEP3	10STEP (75% Green)
9	RASTER2	Raster (75% Yellow)	19	10STEP4	10STEP (75% Red)
10	RASTER3	Raster (75% Cyanide)	20	10STEP5	10STEP (75% Blue)

■ Notes when using SG MODE/SG PATTERN

- During factory mode, choose the correct route when changing.
- Basically, during VDEC SG output, make sure to connect SG output's Y or G to the AVI input terminal of VDEC.
- During SG MODE, turn off the blanking 50IRE setup function.
- During VDEC SG output, set the YC seperation setting to NTSC.
- It is possible to use ANALOG OUT MODE together during DIGITAL OUT MODE.

The Main VDEC can output digital color difference, in which colors will appear.

But the route to VDEC input cannot be analysed therefore care should be taken when using.

Depending on the situation, please use the proper analog/digital output.

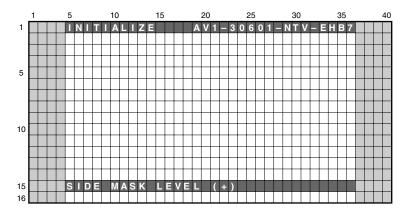
- The SG MODE outputs color difference and RGB only. Therefore, in the case of CVBS, only the Y input is used resulting in no color. This is not a damage result nor error.
- The SG MODE's ANA AD RGB (route to input 525i to AD by RGB) as a set's route, the setting does not exist. For this account the latter part from MVDEC does not have set values, resulting in having funny colors in colorbar, the brightness changes after switching, etc.

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This is not a damage result nor error.

• Depending on MVDEC's part version, ANA_MVDEC_YCBCR may not display colors.

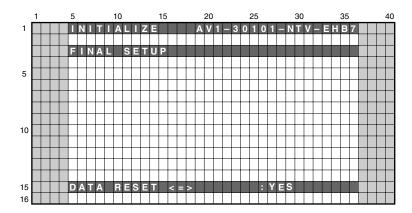
8.2.4.4 SIDE MASK LEVEL



To configure sidemask's R, G, B level (To adjust the values, input signal is required).

No.	Display	Content	RS-232C
1	R MASK LEVEL ⇔	Adjust Side Mask R (Adjustable range: 000 to 255)	RSL
2	G MASK LEVEL ⇔	Adjust Side Mask G (Adjustable range: 000 to 255)	GSL
3	B MASK LEVEL ⇔	Adjust Side Mask B (Adjustable range: 000 to 255)	BSL

8.2.4.5 FINAL SETUP



- To reset each memory value sto factory default values. Factory command is "FST".
- When the configuration is set to <NO> and the [SET] key is pressed, no action is taken and the menu returns to previous screen.
- When the configuration is set to <YES> and the [SET] key is pressed for 5 seconds, the reset action executes.

8.2.4.6 CVT AUTO

Exclusively used for technical analysis (details omitted).

8.2.4.7 HDMI INTR POSITION (+)

Exclusively used for technical analysis (details omitted).

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9. LIST OF RS-232C COMMANDS

9.1 OUTLINE OF RS-232C COMMANDS

9.1.1 PREPARED TOOLS

It is necessary to prepare the following one to use 232C command.

- PC
- Application for control
- 232C cable (straight)
- * It is likely not to move correctly in Win 98 faction/Me and Win for foreign countries.
- * The setting of the Com port cannot be communicated if it doesn't do correctly. (Please follow a set explanation of PC in the Com port)

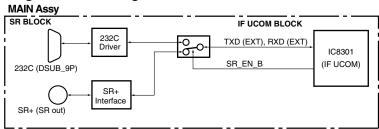
9.1.2 USING RS-232C COMMANDS

For the PDP-507XD and PDP-507XA series Plasma Displays, the circuitry is structured as shown in the diagram below to support the SR+ system. Controlling with either the SR+ system or RS-232C commands can be selected.

As the SR+ system is selected at shipment, to control with RS-232C commands in servicing it is necessary to switch the

paths. After servicing, be sure to return the setting to the SR+ system.

■ Rough diagram of switching between SR+ and RS-232C



■ How to switch SR+/RS-232C ?

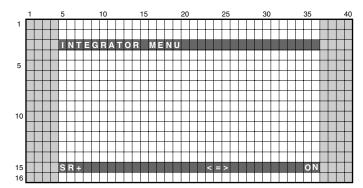
There are "How to switch SR+/RS-232C by remote control in the Standby Mode" and "How to switch SR+/RS-232C by remote control in the INTEGRATOR MENU" as a Method

- 1 To select SR+/RS-232C by remote control in Standby Mode.
 - During Standby mode, hold the keys other than the [POWER] key on the remote control, the following operation is done within 10 seconds.

To select from SR+ to RS-232C/To select from RS-232C to SR+.

- During standby mode, hold the [VOLUME+ (or -)] key on the remote control unit pressed for 3 to 10 seconds.

 →Then within 3 seconds after the key is released, hold the [2-screen] key released, use the [SET (ENTER)] key on the remote control unit to set to RS-232C (the baud rate last selected is chosen) or the [HOME MENU] key to set to SR+
- During IF Standby mode (once 10 seconds or more has passed after the LED goes dark during communication), the first keypress may not be accepted. In such a case, for a key operation, first press any key other than the [POWER] key and [CH] keys, then the desired key.
- At the switch SR+/RS-232C, the LED will be blinked on the fixed time.
- ② To select SR+/RS-232C in the INTEGRATOR MENU.
 - How to enter INTEGRATOR MENU.
 - During standby mode, press the [Home Menu] key, and then press the [POWER] key within 3 seconds. During factory mode, hold the [INTEGRATOR] key.
 - In INTEGRATOR MENU, there is a OSD where SR+ (or RS-232C) is turned on/off, and it switches on the screen.



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9.1.3 COMMAND PROTOCOL

■ Communication protocol : Asynchronous serial communication by RS-232C

Start bit length : 1 bit

Data width : 8 bit (ASCII codes/There is no distinction between the capital letter and the small letter)

Parity : None Stop bit length : 1 bit

Baud rate : 9600 bps (Fixed)

Regulating function

Direct numerical value effective: The adjustment value can be set directly by transmitting the figure to the mark of the

command.

■ Data format

The control signal format sent from the user side controller is as follows. When the transmission data is completed STX (02 (Hex)), the command of ETX (03 (Hex)) is arranged when beginning to communicate. And, ID, the command, and the parameter are arranged between those. Data is assumed to be ASCII form alphanumeric character. Neither the capital letter nor the small letter are distinguished.

• Only for the command

STX	ID	Command	ETX
0x02	**		0x03

· When you accompany setting/adjustment data

STX	ID	Command	Parameter	ETX
0x02	**		$\Delta\Delta\Delta$	0x03

■ Command processing

When the command is input, the command processing begins processing.

ID is assumed to be 2 asterisk "**".

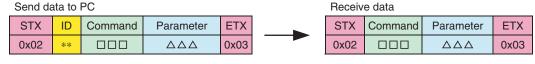
■ Reception confirmation

The module microcomputer judges right or wrong for the command received from the main side.

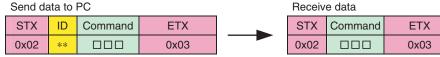
If it is an effective command, processing is executed. And, the reply of the received command is done when entering the following state of the command standby after processing is completed.

The replying data replies data that deletes the ID code from the reception command by the capital letter.

· When you accompany setting/adjustment data



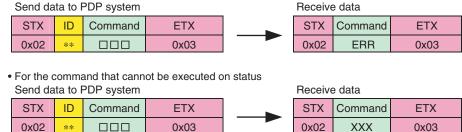
Only for the command



In this case, "ERR" replies if it is a command of the uncorrespondence.

The command replies "XXX" when processing on status cannot be executed even if it is effective.

For an Invalid command



■ Processing in the case of an error

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When the communication error occurs from STX between ETX, the processing of a pertinent command is discontinued, and the reception buffer is cleared. When STX is received, the command reception processing keeps storing the transmitted character string in the register.

And, the character string placed by the ETX reception between STX-ETX is interpreted as a command.

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9.1.4 DEFINITION OF COMMAND

■Single functional command

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The command to which operation is concluded only by command. The command parts are 3 characters.

Send data to PC Receive data STX ID Command **ETX** STX Command **ETX** 0x02 ** PON 0x02 PON 0x03 0x03

■ Adjustment command and adjustment value

- The command to which value of parameter is changed attended with adjustment value. The command parts are 3 characters.
- The adjustment value is the numeric character data of the decimal number 3 characters. It is made the range of 000-999. The range that can be adjusted is different according to the function to adjust (It is noted that then, it is not uniformly to 999).

Send data to PC					Rec	Receive data			
STX	ID	Command	Parameter	ETX	ST	X	Command	Parameter	ETX
0x02	**	CNT	128	0x03	0x0	02	CNT	128	0x03

- * When the received command exceeds the range where the adjustment value can be adjusted, "XXX" is transmitted.
- * When the same adjustment value is continuously transmitted two times or more, "XXX" doesn't reply, though it is an invalid command. It's overwrited, and ACK that deletes ID replies.

■ Set command and Set value

- The command to which set value of parameter is changed attended with set value. The command parts are 3 characters.
- Set values are three characters. The first character is fixed to "S".
 2 remainder characters are assumed to be assumption S00-S99 as the decimal number.

Send data to PDP system					Receive data				
STX	ID	Command	Parameter	ETX		STX	Command	Parameter	ETX
0x02	**	MKS	S02	0x03		0x02	MKS	S02	0x03

- * When the received command doesn't exist as a set value, "XXX" is transmitted.
- * When the same set value is continuously transmitted two times or more, "XXX" doesn't reply, though it is an invalid command. It's overwrited, and ACK that deletes ID replies.

■ State acquisition command

- The command that reports on state of operation and set value, etc. to system side.
- The content that corresponds by the kind of the command is read from the memory, when the command is received from the system side and it replies.
- The command parts are three characters. The first character is fixed to "Q". It sets since the second character according to the content of information.
- The reply data is transmitted adding various data that converts the received command and ASCII code and the checksum of the data. Because the content of the reply changes according to the kind of the "QUEST command", the data length follows an individual, individual specification.

Send data to PDP system Receive data					e data			
STX	ID	Command	ETX		STX	Command	Parameter	ETX
0x02	**	QS1	0x03		0x02	QS1	•••••	0x03

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■ Adjustment assistance command

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The Adjustment Assistance Command is combined and used with the Adjustment Command.

- The Adjustment Command + Adjustment Assistance Command ⇒ It addition/subtracts it from a present adjustment value. **Note:** When the received command exceeds the range of the adjustment value, it changes to MAX/MIN.
- The adjustment command immediately before is made efficacy when only the adjustment command (addition/subtraction command) is received alone after the adjustment command receptions completed, and it makes it to the value addition/subtracted from a present adjustment value. However, it applies to the command when other commands are received.
- Kind of Adjustment Assistance Command (addition/subtraction command)

UP1 to UP9, UP0, UPF: 1 to 10 is added to a setting value.

UPF: It makes it to the maximum value ("VOL" command).

DW1 to DW9, DW0, DWF: 1 to 10 is subtracted a setting value.

DWF: It makes it to the minimum value ("VOL" command).

FWD: One Priset CH is previously advanced ("CHN" command).

REV: One Priset CH is returned in the front ("CHN" Command).

Send data to PDP system

STX	ID	Command	Subcommand	ETX
0x02	**	VOL	UP1	0x03

Receive data

STX	Command	Subcommand	ETX
0x02	VOL	UP1	0x03

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9.2 LIST OF RS-232C COMMANDS

RS-232C commands can be used in Service Factory mode. Before using RS-232C commands, it is necessary to change the factory presetting. See "9.1 OUTLINE OF RS-232C COMMANDS".
[Note; If you want to see version infomation (ex. QS1, QS6, Factory, Menu), Please see 10 seconds after starting.]

■ RS-232C command list

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Comm Nan		Function	U-d	tive com MTB	Last Memory	Effective only in Factory mode	Remarks
Α							
ABL	***	Adjusting the upper limit of the power	•		Mod	•	
AMT	S00	Audio mute : OFF		•			
	S01	Audio mute : ON		•			
APW	S00	WB correction interlocked with APL: OFF	•			•	
	S01	WB correction interlocked with APL: ON	•			•	
В			MDU	мтв	'	'	
ВСР		Copying the backup data in the EEPROM	•			•	
вні	***	User white balance : BLUE highlight	•				
BLW	***	User white balance : BLUE lowlight	•				
BRT	***	User brightness	•				
BSM	S00	After image/Burning safe mode: OFF	•				
	S01	After image/Burning safe mode: ON	•				
BSL		Adjusting Side Mask Level BLUE		•			
С	,		MDU	МТВ			
CBU		Clearing backup data of EEPROM	•			•	
СНМ		Clearing data of the hour meter	•			•	
CHN F	FWD	Changing tuner preset channel (1 step forward)		•			
Ī	REV	Changing tuner preset channel (1 step reverse)		•			
CNT	***	User contrast	•				
CMT		Clearing data of the maximum temperature	•			•	
CPC		Clearing power-on count data	•			•	
CPD		Clearing power-down histrory	•			•	
СРМ		Clearing data of the pulse meter	•			•	
CSD		Clearing shutdown history	•			•	
D			MDU	МТВ			
DRV	S00	Main power off	•				
	S01	Main power on	•				
DW*		To subtract *** to the adjustment value (*** = 000 to 999, designated by a function command)		•			
E			MDU	МТВ			
ESV	S00	Setting Power Consumption mode to normal sequence & normal curve	•				
	S01	Setting Power Consumption mode to silent sequence & normal curve	•				
	S02	Setting Power Consumption mode to silent sequence & power-saving curve	•				
F			MDU	МТВ			
FAJ		Determining the flag of the DIGITAL Assy adjustment in "adjustment is completed"	•			•	
FAN		Factory mode off	•	•		•	
FAY		Factory mode on	•	•			
FST		Set each memory setting of MTB side to the shipment state.		•			
G			MDU	МТВ			
GHI	***	User white balance : GREEN highlight	•				
GLW	***	User white balance : GREEN lowlight	•				
GSL		Green side mask level adjustment		•		•	

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	mand ame	Function	U-c	tive com	Last Memory	Effective only in Factory	Remarks
			MDU	MTB	oy	mode	
I							
INA	***	Switching the terrestrial analog signal		•			
INC	***	Switching the terrestrial digital signal (EUC is Step-upD only)		•			
INP	S01	Input switch: INPUT 1		•			
	S02	Input switch: INPUT 2		•			
	S03	Input switch: INPUT 3		•			
	S04	Input switch: INPUT 4		•			
	S05	Input switch: INPUT 5		•			
	S06	Input switch: INPUT 6		•			
M			MDU	МТВ		.	
MKC	S00	MASK off	•		Mod	•	
	S01	H ramp (slant 1) M	•		Mod	•	
	S02	H ramp (slant 4) M	•		Mod	•	
	S03	Slanting ramp M	•		Mod	•	
	S04	30 for aging	•		Mod	•	
	S05	05 for aging	•		Mod	•	
	S06	Erasing afterimage 1	•		Mod	•	
	S07	Erasing afterimage 2 (RGB: zigzag, V: reverse)	•		Mod	•	
	S08	White (change in luminance level)	•		Mod	•	
	S09	PEAK SEEK RASTER	•		Mod	•	
	S10	For engineering use	•		Mod	•	
MKS	S00	MASK off	•		Mod		
	S01	H ramp (slant 1)	•		Mod	•	
	S02	H ramp (slant 4)	•		Mod	•	
	S03	V ramp (slant 1)	•		Mod	•	
	S04	Slanting ramp	•		Mod	•	
	S05	Window (Hi= 870, Lo= 102)	•		Mod	•	
	S06	Window (Hi= 1023, Lo= 102)	•		Mod	•	
	S07	Window (Hi= 1023)	•		Mod	•	
	S08	Window (Hi= 1023) 4 %	•		Mod	•	
	S09	Window (Hi= 1023) 4 % Window (Hi= 1023) 1.25 %	•		Mod	•	
	S10	Window (1/7 LINE)	•		Mod	•	
	S11	STRIPE (MGT/GRN)	•		Mod	•	
	S12	STRIPE (GRN/MGT)	•		Mod	•	
	S13	B & W, checker (1 line)	•		Mod	•	
	S14	B & W, checker (1 line)	•		Mod	•	

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Comr Na	mand me	Function	<u>U-</u>	tive com MTB	Last Memory	Effective only in Factory mode	Remarks
М							
мкѕ	S15	B & W, checker (4 lines)	•		Mod	•	
ı	S16	B & W, checker (8 lines)	•		Mod	•	
ŀ	S17	COLOR BAR	•		Mod	•	
ŀ	S18	Slanting lines	•		Mod	•	
ŀ	S19	Red & black, checker (1 line)	•		Mod	•	
ŀ	S20	Red & black, checker (2 lines)	•		Mod	•	
ŀ	S21	Red & black, checker (4 ines)	•		Mod	•	
-	S22	Red & black, checker (8 lines)	•		Mod	•	
ŀ	S23	RGB zigzag, V reverse	•		Mod	•	
-	S24	SUS 2000 pulses (black raster)	•		Mod	•	
ŀ	S25	Window (Hi= 870, Lo= 102) Pattern 3	•		Mod	•	
ŀ			•			_	
-	S26	Window (Hi= 1023, Lo= 102) Pattern 3			Mod	•	
- }	S27	Window (Hi= 1023) Pattern 3	•		Mod	•	
}	S28	Window (Hi= 1023) 4 % Pattern 3	•		Mod	•	
-	S29	Window (Hi= 1023) 1.25 % Pattern 3	•		Mod	•	
-	S30	Window (1/7 LINE) Pattern 3	•		Mod	•	
-	S31	Noise ON - White	•		Mod	•	
-	S32	Noise ON - Red	•		Mod	•	
	S33	Noise ON - Green	•		Mod	•	
	S34	Noise ON - Blue	•		Mod	•	
-	S35	Noise ON - Black	•		Mod	•	
	S36	For engineering use	•		Mod	•	
	S37	For engineering use	•		Mod	•	
_	S38	For engineering use	•		Mod	•	
	S39	For engineering use	•		Mod	•	
	S51	Raster - White	•		Mod	•	
	S52	Raster - Red	•		Mod	•	
	S53	Raster - Green	•		Mod	•	
	S54	Raster - Blue	•		Mod	•	
	S55	Raster - Black	•		Mod	•	
	S56	Raster - Cyan	•		Mod	•	
	S57	Raster - Magenta	•		Mod	•	
	S58	Raster - Yellow	•		Mod	•	
	S59	RASTER09: Red 760	•		Mod	•	
	S60	RASTER10: Cyan 419	•		Mod	•	
	S61	RASTER11: Green 856	•		Mod	•	
Ī	S62	RASTER12: Gray 313	•		Mod	•	
ľ	S63	RASTER13: Gray 908	•		Mod	•	
ļ	S64	RASTER14: Yellow egg color	•		Mod	•	
f	S65	RASTER15: Beige	•		Mod	•	
f	S66	RASTER16: Sky color	•		Mod	•	
ŀ	S67	RASTER17: Pale purple	•		Mod	•	
ŀ	S68	RASTER18: Magenta 54	•		Mod	•	
}	S69	RASTER19: Red 1023+	•		Mod	•	
}	S70	RASTER20: Green 1023+	•		Mod	•	
+	S71	RASTER20: Green 1023+ RASTER21: Blue 1023+	•		Mod	•	
}	S72	RASTER21: Blue 1023+ RASTER22: Red 588+	•		Mod	•	
}	S73	RASTER23: Green 588+	•		Mod	•	
ŀ	S74	RASTER24: Pale rose	•		Mod	•	

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Command Name		Function	U-	Active U-com MDU MTB		Effective only in Factory mode	Remarks
М			150	1			
MST	S00	Display one screen		•			
	S01	PsideP (Main size : normal)		•			
	S02	PinP (Right_down)		•			
	S03	PinP (Right_up)		•			
	S04	PinP (Left_up)		•			
	S05	PinP (Left_down)		•			
	S06	PsideP (Main size : center)		•			
	S07	PsideP (Main size : large)		•			
	S08	SWAP (Exchanging sub-screen)		•			
0			MDU	МТВ	!	+	
OSD	S00	Turning OSD setting to off		•			
	S01	Turning OSD setting to on		•			
Р			MDU	МТВ			
PAV	S**	Switching panel functions interlocked with the AV selection	•				
PBH	***	Panel white balance adjustment - Blue highlight	•		Mod	•	
PBL	***	Panel white balance adjustment - Blue low light	•		Mod	•	
PDM	S00	Passing PD signals to the Power SUPPLY Unit => Power-down	•				
	S01	Not passing PD signals to the Power SUPPLY Unit => No power-down	•				
PFN		Factory mode: off	•			•	
PFS		Setup at shipment	•			•	
PFY		Factory mode: on	•			•	
PGH	***	Panel white balance adjustment - Green highlight	•		Mod	•	
PGL	***	Panel white balance adjustment - Green low light	•		Mod	•	
PGM	S**	Setting of the gamma table	•				
PMT	S00	Canceling panel muting	•				
	S01	Panel muting	•				
POF		Power off	•	•	Main		
PON		Power on	•	•	Main		
PPT	S00	Panel protection: off	•			•	
	S01	Panel protection: on	•			•	
PRH	***	Panel white balance adjustment - Red highlight	•		Mod	•	
PRL	***	Panel white balance adjustment - Red low light	•		Mod	•	
PUC	S00	Pure cinema: off	•	•		•	
	S01	Pure cinema: standard	•	•		•	
	S02	Pure cinema: advanced	•	•		•	
Q			MDU	МТВ	'	<u>'</u>	
QAJ		Acquiring various adjustment values	•				
QIP		Acquiring various input signal data	•				
QMT		Acquiring temperature of MTB side and Fan speed		•			
QNG		Acquiring shut-down information of MTB side		•			
QPD		Acquiring logs of power-down points	•				
QPM		Acquiring data of the pulse meter	•				
QPW		Acquiring panel white balance adjustment values	•				
QS1		Acquiring unit data, such as the software version common to all models, regardless of destination	•	•			
QS2		Acquiring data on the status of the unit, such as temperature	•				
QS6		Acquiring unit data, such as the software version common to all models, regardless of destination		•			
QSD		Acquiring data on shutdown	•				

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2 = 3 = 4

	mand ime	Function		tive	Last Memory	Effective only in Factory	Remarks
	0		MDU	MTB	wemory	mode	
Q					T		
QSI		Acquiring data related with signals	•				
R			MDU	MTB	T		
RBL	S**	Setting of blue level for panel degradation correction	•		Mod	•	
RGL	S**	Setting of green level for panel degradation correction	•		Mod	•	
RHI	***	User white balance - Red highlight	•				
RLW	***	User white balance - Red low light	•				
RRL	S**	Setting of red level for panel degradation correction	•		Mod	•	
RSL	***	Adjustment of the Red side mask level		•		•	
RSW	***	Adjustment of the width of XY reset pulse 1	•		Mod	•	
RYW	***	Adjustment of the width of XY reset pulse 2	•		Mod	•	
s			MDU	MTB			
SDM	S00	Shutdown enabled	•				
	S01	Shutdown prohibited	•				
SFR	S01	Measures against AM radio noise - Pattern 1	•		Mod	•	
	S02	Measures against AM radio noise - Pattern 2	•		Mod	•	
	S03	Measures against AM radio noise - Pattern 3	•		Mod	•	
İ	S04	Measures against AM radio noise - Pattern 4	•		Mod	•	
	S05	Measures against AM radio noise - Pattern 5	•		Mod	•	
İ	S06	Measures against AM radio noise - Pattern 6	•		Mod	•	
Ī	S07	Measures against AM radio noise - Pattern 7	•		Mod	•	
Ī	S08	Measures against AM radio noise - Pattern 8	•		Mod	•	
SMM	S**	Setting of the effective area during streaking correction	•			•	
SN0	***	Setting of the serial No. 0 (panel)	•		Mod	•	
SN1	***	Setting of the serial No. 1 (panel)	•		Mod	•	
SN2	***	Setting of the serial No. 2 (panel)	•		Mod	•	
SN3	***	Setting of the serial No. 3 (panel)	•		Mod	•	
SN4	***	Setting of the serial No. 4 (panel)	•		Mod	•	
SZM	S00	Setting the screen size to Dot by Dot or PARTIAL		•			
	S01	Setting the screen size to 4:3		•			
	S02	Setting the screen size to FULL or FULL1080i		•			
	S03	Setting the screen size to ZOOM		•			
	S04	Setting the screen size to CINEMA		•			
	S05	Setting the screen size to WIDE		•			
-	S06	Setting the screen size to FULL 14:9		•			
	S07	Setting the screen size to CINEMA 14 : 9		•			
	S08	Setting the screen size to FULL1035		•			
U	500	U	MDII	MTB			
UAJ		Determining the flag for the DIGITAL Assy adjustment in "not adjusted"	•				
UP*		To add *** to the adjustment value (*** = 000 to 999,		<u> </u>			
Ji *		designated by a function command)		•			

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	mand ame	Function		tive com	Last Memory	Effective only in Factory	Remarks
			MDU	МТВ	Memory	mode	
٧							
VFQ	S01	Setting the frequency in Mask mode to VD-48 Hz	•		Mod	•	
	S02	Setting the frequency in Mask mode to VD-50 Hz	•		Mod	•	
	S03	Setting the frequency in Mask mode to VD-60 Hz	•		Mod	•	
	S05	Setting the frequency in Mask mode to VD-72 Hz	•		Mod	•	
	S06	Setting the frequency in Mask mode to VD-75 Hz	•		Mod	•	
	S13	Setting the frequency in Mask mode to PC-60 Hz	•		Mod	•	
	S14	Setting the frequency in Mask mode to PC-70 Hz	•		Mod	•	
	S22	Setting the frequency in Mask mode to VD-50 Hz (nonstandard)	•		Mod	•	
	S23	Setting the frequency in Mask mode to VD-60 Hz (nonstandard)	•		Mod	•	
	S25	Setting the frequency in Mask mode to VD-72 Hz (nonstandard)	•		Mod	•	
	S26	Setting the frequency in Mask mode to VD-75 Hz (nonstandard)	•		Mod	•	
VOF	***	Adjustment of the reference value of Vofs voltage	•			•	
VOL	UP*, DW*, ***	To adjust the volume (to be used in combination with UP*/DW*)		•			
VRP	***	Adjustment of the reference value of Vrst-p voltage	•			•	
VSU	***	Adjustment of the reference value of Vsus voltage	•			•	
W							
WBI	S00	Panel WB standard output mode: off	•			•	
WBI	S01	Panel WB standard output mode: on	•			•	
Х				•			
XSB	***		•		Mod	•	
Υ							
YSB	***	Y-SUS-B ADJ	•		Mod	•	
YTB	***	Y-SUSTAIL T2 ADJ	•		Mod	•	
YTG	***	Y-SUSTAIL T1 ADJ	•		Mod	•	
YTW	***	Y-SUSTAIL W ADJ	•		Mod	•	
Z							
ZME		Initializing the video EEPROM data		•		•	
ZPR		Initializing the setting data to which no adjustment command is provided	•			•	

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9.3 OUTLINE OF COMMANDS 9.3.1 QS1

Model information and version information are returned.

Command Format	Effective Operation Modes	Function	Remarks
[QS1]	Every Time	Output of status	Return data: 105 Byte

	Data Arrangement	Data Length	Output Example
ECO		3 byte	QS1 (Fixed)
1	Display information 1 (Resolution/inch size)	1 byte	F
2	Display information 2 (Panel Generation)	1 byte	7: G7
3	Display information 3 (Destination)	1 byte	A: USA
4	Display information 4 (System Type)	1 byte	*
5	Display information 5 (Panel Product Form)	1 byte	В
6	MDUcom-Boot	3 byte	01A
7	MDUcom-Prg	8 byte	
8	Seq Prs-Boot	3 byte	01A
9	Seq Prs-Prg	8 byte	
10	SQ-VIDEO	4 byte	
11	SQ-PC	4 byte	
12	Panel Type	1 byte	P/F
13	Reserved (*)	7 byte	*****
14	, (comma)	1 byte	
15	MTB information 1 (Generation)	1 byte	7: G7
16	MTB information 2 (Regional model)	1 byte	A: USA
17	MTB information 3 (Grade)	1 byte	H: Elite
18	MTB information 4 (System Type)	1 byte	В
19	Common version for IF microcomputer	4 byte	
20	Common version for Main microcomputer	8 byte	
21	Boot version of Main microcomputer	4 byte	
22	Common version for Multi-processor	8 byte	
23	Boot version of Multi-processor	4 byte	
24	Reserved (*)	24 byte	
25	Check Sum	2 byte	FF

1: Re	solution/Inch size
3	1024*768/42
4	1024*768/43
5	1280*768/50
6	1365*768/50
7	1365*768/60
F	1920*1080/50

2: Panel Generation						
6	G6					
7	G7					
8	G8					
9	G9					
0	G10					

3: Destination		
*	Commonness	
Α	US (Reserved)	
E	EU (Reserved)	
J	Japan (Reserved)	

4: System Type	
*	Commonness
Z	Evaluation

5: Panel Product Form			
S	System model		
В	All-in-one design TV		
М	Monitor		
D	Standard module		
Е	Simple module		

12: Panel Type		
Р	The past	
F	High-effiective	

15: M	TB/MB Generation
6	G6
7	G7
8	G8
9	G9
0	G10

16: Regional Model		
J	JP	
Α	US	
E	EU	
G	GE	
С	CH	
U	AU	

17: MTB/MB Grade		
Н	Elite/DXA/Step-upD	
Т	Step-upA/XG/TXC/Regular (US)	
В	Not used (For Future)	
S	RegularD	
R	RegularA	

18: MTB/MB Product Form		
S	System model	
В	One body model (SX)	
М	Monitor (FHD)	

19 to 23: MTB/MB-side's information		
IF uCON	Common version of IF microcomputer	
Main uCON	Common version of Main microcomputer	
Main uCON-Boot	Boot version of Main microcomputer	
Multi-prs	Common version of Multi-processor program	
Multi Prs-Boot	Boot version of Multi-processor program	

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The command QS2 is for acquiring data on the panel's operational information.

Command Format	Effective Operation Modes	Function	Remarks
[QS2]	All operations	To acquire data on operations of the panel	Return data: 3 (ECO)+23(DATA)+2(CS)= 28 Byte

	Data Arrangement	Data Length	Output Example
ECO		3 byte	QS2
1	Notification of mode shifting to STB	1 byte	1
2	Flag for adjustment of the main unit	1 byte	0
3	Flag for adjustment-data backup	1 byte	0
4	"1st PD" data	1 byte	0
5	"2nd PD" data	1 byte	0
6	Still picture detection	1 byte	0
7	Reserved	2 byte	**
8	Temperature data (TEMP 1)	3 byte	128 (*1)
9	SD main data	1 byte	0
10	SD sub data	1 byte	0
11	Operation status induced by SD	1 byte	0
12	Data from the hour meter	8 byte	00000259 (*2)
13	MASK indication	1 byte	0
cs		2 byte	4A

Note : (*1) The unit scale is centigrade. The data is A/D value from the thermal sensor.

(*2) "00000259" of "Data from the hour meter" means 2 hours 59 minuts.

1: Notification of mode shifting to Standby	
0	Entering Standby mode failed
1	Entering Standby mode succeeded

2: Adjustment of the main unit		
0	Adjustment completed	
1	Adjustment not completed	

3: Adjustment-data backup		
0	With backup data	
1	No data (default)	

4, 5: PD data		
0	No PD data	
1	Not used	
2	POWER	
3	SCAN	
4	SCN-5V	
5	Y-DRV	
6	Y-DCDC	
7	Y-SUS	
8	ADRS	
9	X-DRV	
Α	X-DCDC	
В	X-SUS	
С	Not used	
D	Not used	
Е	Not used	
F	UNKNOWN	

6: Still picture detection			
0	Normal screen		
1	Still picture		

9: SD main data			
0	No SD		
1	SQ-IC		
2	MDU-IIC		
3	RST2		
4	TEMP		

10-1: SD-Sub (SQ-IC)			
0	No SD-Sub data		
1	Communication error		
2	Drive stop		
3	BUSY		
6	Version mismatching		

10-2: SD-Sub (IIC)			
0	No SD-Sub data		
1	EEPROM		
2	BACKUP		
3	DAC		

10-3: SD-Sub (TEMP)			
0	No SD-Sub data		
1	TEMP1		
2	Reserved		

11: Operation status induced by SD			
0	Normal		
1	Relay-off completed		
2	During warning indication		

13: MASK indication		
0	MASK-OFF	
1	MASK-ON	

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9.3.3 QIP

Α

The command QIP is for acquiring data on operational information of the panel.

Comm		Effective Operation Modes	Function	Remarks
[QI	P]	All operations	To acquire data on operations of the panel	Return data: 3 (ECO)+58(DATA)+2(CS)= 63 Byte

3

Data Arrangement		Data Length	Output Example
ECO		3 byte	QIP
1	SERIAL	15 byte	
2	HOUR METER	8 byte	00000000
3	TOTAL HOUR METER	8 byte	00000000
4	PON COUNTER	8 byte	00000000
5	TEMP1 acquisition (Temperature value)	5 byte	+23.5 (*1)
6	TEMP0 acquisition (Temperature value)	5 byte	+28.7 (*1)
7	MAX-TEMP1 acquisition (Temperature value)	5 byte	+78.3 (*1)
8	Reserved	4 byte	****
cs		2 byte	94

Note (*1): Centigrade scale

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9.3.4 QAJ

The command QAJ is for acquiring the panel's factory-preset data.

Command Format	Effective Operation Modes	Function	Remarks
[QAJ]	All operations	To acquire data on operations of the panel	Return data: 3 (ECO)+41(DATA)+2(CS)= 46 Byte

	Data Arrangement	Data Length	Output Example
ECO		3 byte	QAJ
1	V-SUS adjustment value	3 byte	128
2	V-OFT adjustment value	3 byte	128
3	V-RST-P adjustment value	3 byte	128
4	Reserved	3 byte	***
5	XSB adjustment value	3 byte	128
6	YSB adjustment value	3 byte	128
7	YTG adjustment value	3 byte	128
8	YTW adjustment value	3 byte	128
9	RSW adjustment value	3 byte	128
10	YTB adjustment value	3 byte	128
11	RYW adjustment value	3 byte	128
12	R-REVICE setting value	1 byte	0
13	G-REVICE setting value	1 byte	0
14	B-REVICE setting value	1 byte	0
cs		2 byte	B7

 $\bullet \ \, \text{For each REVISE setting value, the level set for RRL, RGL, or RBL is transmitted as one character. }$

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9.3.5 QPW

The command QPW is for acquiring the factory-preset data about the video of the panel.

Command Format	Effective Operation Modes	Function	Remarks
[QPW]	All operations	To acquire data on operations of the panel	Return data: 3 (ECO)+35(DATA)+2(CS)= 40 Byte

	Data Arrangement	Data Length	Output Example
ECO		3 byte	QPW
1	Drive sequence	3 byte	60V
2	Standard/nonstandard	1 byte	S
3	Type of ABL/WB tables	2 byte	T2
4	ABL adjustment value	3 byte	128
5	R-HIGH adjustment value	3 byte	256
6	G-HIGH adjustment value	3 byte	256
7	B-HIGH adjustment value	3 byte	256
8	R-LOW adjustment value	3 byte	512
9	G-LOW adjustment value	3 byte	512
10	B-LOW adjustment value	3 byte	512
11	Gamma setting	1 byte	Α
12	Streaking correction	1 byte	1
13	Peripheral luminance correction	1 byte	0
14	Reserved	1 byte	*
15	WB interlocked with APL	1 byte	0
16	Transition of protective operations	1 byte	0
17	Reserved	2 byte	**
cs		2 byte	37

1: Drive sequence		12, 15: Setting for Items 12 and 15				
48V	Video 48 Hz	0	OFF			
50V	Video 50 Hz	1	ON			
60V	Video 60 Hz					
72V	Video 72 Hz	13: Peripheral luminance correction				
75V	Video 75 Hz					
000	DO 00 11-	0	OFF			
60P	PC 60 Hz	2	ON (interlocked with APL)			
70P	PC 70 Hz	ــــــا ا	ON (Interiorited Willi Al E)			
		•				

2: Standard/ nonstandard			
S Standard			
N Nonstandard			

	16: Transition of brightness by protective operations		
0	Upper limit state for brightness		
1	Brightness being reduced		
2	2 Lower limit state for brightness		
3	Brightness being increased		

3: Type of ABL/WB tables			
Tn	n: 1 to 4		

I1: Gamma setting		
n	0 to F	

9.3.6 QPM

The command QPM is for acquiring the accumulated number of pulses of the panel.

Command Format	Effective Operation Modes	Function	Remarks
[QPM]	All operations	To acquire data on operations of the panel	Return data: 3 (ECO)+40(DATA)+2(CS)= 45 Byte

Data Arrangement		Data Length	Output Example
ECO		3 byte	QPM
1	Pulse meter B 1	8 byte	00000000
2	Pulse meter B 2	8 byte	00000000
3	Pulse meter B 3	8 byte	00000000
4	Pulse meter B 4	8 byte	00000000
5	Pulse meter B 5	8 byte	00000000
cs		2 byte	E7

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9.3.7 QPD

Α

The command QPD is for acquiring data from the 8 latest power-down (PD) logs.

Command Format	Effective Operation Modes	Function	Remarks
[QPD]	All operations	To acquire data on the power-down logs	Return data: 3 (ECO)+80(DATA)+2(CS)= 85 Byte

3

	Data Arrangement	Data Length	Output Example
ECO		3 byte	QPD
1	Latest "1st PD" data	1 byte	Α
2	Latest "2nd PD" data	1 byte	2
3	Data from the hour meter for the latest PD	8 byte	00010020
4	Second latest "1st PD" data	1 byte	Е
5	Second latest "2nd PD" data	1 byte	9
6	Data from the hour meter for the second latest PD	8 byte	00008523
7	Third latest "1st PD" data	1 byte	4
8	Third latest "2nd PD" data	1 byte	3
9	Data from the hour meter for the third latest PD	8 byte	00004335
10	Fourth latest "1st PD" data	1 byte	2
11	Fourth latest "2nd PD" data	1 byte	0
12	Data from the hour meter for the fourth latest PD	8 byte	00000945
13	Fifth latest "1st PD" data	1 byte	4
14	Fifth latest "2nd PD" data	1 byte	0
15	Data from the hour meter for the fifth latest PD	8 byte	00000715
16	Sixth latest "1st PD" data	1 byte	Α
17	Sixth latest "2nd PD" data	1 byte	2
18	Data from the hour meter for the sixth latest PD	8 byte	00000552
19	Seventh latest "1st PD" data	1 byte	Α
20	Seventh latest "2nd PD" data	1 byte	0
21	Data from the hour meter for the seventh latest PD	8 byte	00000213
22	Eighth latest "1st PD" data	1 byte	D
23	Eighth latest "2nd PD" data	1 byte	0
24	Data from the hour meter for the eighth latest PD	8 byte	000001A7
cs		2 byte	27

1, 2, 4, 5: PD data				
0	No PD			
1	Not used			
2	P-POWER			
3	SCAN			
4	SCN-5V			
5	Y-DRIVE			
6	Y-DCDC			
7	Y-SUS			
8	Address			
9	X-DRIVE			
Α	X-DCDC			
В	X-SUS			
С	Not used			
D	Not used			
Е	Not used			
F	UNKNOWN			

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9.3.8 QSD

The command QSD is for acquiring the data from the 8 latest shutdown (SD) logs.

6

Command Format	Effective Operation Modes	Function	Remarks
[QSD]	All operations	To acquire data on the shutdown logs	Return data: 3 (ECO)+80(DATA)+2(CS)= 85 Byte

7

	Data Arrangement	Data Length	Output Example
ECO		3 byte	QSD
1	Latest SD data	1 byte	1
2	Latest SD subcategory data	1 byte	0
3	Data from the hour meter for the latest SD	8 byte	00752013
4	Second latest SD data	1 byte	5
5	Second latest SD subcategory data	1 byte	0
6	Data from the hour meter for the second latest SD	8 byte	00495204
7	Third latest SD data	1 byte	2
8	Third latest SD subcategory data	1 byte	3
9	Data from the hour meter for the third latest SD	8 byte	00100355
10	Fourth latest SD data	1 byte	2
11	Fourth latest SD subcategory data	1 byte	5
12	Data from the hour meter for the fourth latest SD	8 byte	00075620
13	Fifth latest SD data	1 byte	1
14	Fifth latest SD subcategory data	1 byte	0
15	Data from the hour meter for the fifth latest SD	8 byte	00000852
16	Sixth latest SD data	1 byte	2
17	Sixth latest SD subcategory data	1 byte	5
18	Data from the hour meter for the sixth latest SD	8 byte	000000451
19	Seventh latest SD data	1 byte	0
20	Seventh latest SD subcategory data	1 byte	0
21	Data from the hour meter for the seventh latest SD	8 byte	0000000
22	Eighth latest SD data	1 byte	0
23	Eighth latest SD subcategory data	1 byte	0
24	Data from the hour meter for the eighth latest SD	8 byte	0000000
cs		2 Byte	7D

• SD	● SD data			
0	No SD			
1	SQ-IC			
2	MDU-IIC			
3	RST2			
4	TEMP			

В

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● SD subcategory (SQ-IC)				
0	No SD-Sub data			
1	1 Communication error			
2	Drive stop			
3	3 BUSY			
6	Version mismatching			

● SD subcategory (MDU-IIC)			
0 No SD-Sub data			
1	EEPROM		
2	BACKUP		
3	DAC		

● SD subcategory (TEMP)			
0	No SD-Sub data		
1	TEMP1		
2	Reserved		

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9.3.9 QS6

Α

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Induce it peculiar, individual information is acquired.

Command Format	Effective Operation Modes	Function	Remarks
[QS6]	Every time	Output of status	

3

Order	Part	Data Arrangement	Data Length	Remarks
00	_	Received Command name	3 byte	QS6
01		DTB version	4 byte	
02		Reserved	8 byte	
03		TELE-TEXT version	60 byte	
04		USER PASSWORD	4 byte	
05	-	Check Sum	2 byte	

2

9.3.10 QMT

Temperature information (TEMP2) / FAN rotation state information on the MTB side is returned.

Command Format	Effective Operation Modes	Function	Remarks
[QMT]	Every time	Output of status	MTB-side's temperature/FAN rotating status

Order	Part	Data Arrangement	Data Length	Remarks
0	_	Received Command name	3 byte	QMT
01	MTB	MTB-side Temperature (TEMP2)	3 byte	
02		MTB-side FAN rotating speed	1 byte	0: STOP 1: LOW, 5: HIGH, 3: MIDDLE (FHD only)

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9.3.11 QNG

MTB/MB side's shutdown information is acquired.

Command Format	Effective Operation Modes	Function	Remarks
[QNG]	Every time	Output of status	

Order	Part	Data Arrangement	Data Length	Remarks
00	-	Received Command name	3 byte	QNG
01	MTB	1st latest NG No.	1 byte	
02		Subcategory No. for the 1st latest NG.	1 byte	
03		MTB hour meter for the 1st latest NG.	7 byte	
04		Temperature for the 1st latest NG.	3 byte	
05		2nd latest NG No.	1 byte	
06		Subcategory No. for the 2nd latest NG.	1 byte	
07		MTB hour meter for the 2nd latest NG.	7 byte	
08		Temperature for the 2nd latest NG.	3 byte	
09		3rd latest NG No.	1 byte	
10		Subcategory No. for the 3rd latest NG.	1 byte	
11		MTB hour meter for the 3rd latest NG.	7 byte	
12		Temperature for the 3rd latest NG.	3 byte	
:		:		
29		8th latest NG No.	1 byte	
30		Subcategory No. for the 8th latest NG.	1 byte	
31		MTB hour meter for the 8th latest NG.	7 byte	
32		Temperature for the 8th latest NG.	3 byte	
33	_	Check Sum	2 byte	

< SD Information No. >

Value	Shutdown Factor	Remarks (Operation)	
0	Normal		
1	Failure of communication to Module microcomputer	MODULE (immediately Shutdown)	
2	3-wire serial communication of Main microcomputer	Go to No. 1 Subcategory Information	
3	IIC communication failure of Main microcomputer and Unknown error	Go to No. 2 Subcategory Information	
4	Communication failure of Main microcomputer	MAIN (immediately Power Supply OFF)	
5	FAN stopped	FAN (immediately Power Supply OFF)	
6	Abnormally high temperature at MTB	TEMP2 (After 30 seconds warning, turn the power supply off)	
7	Failure of Digital Tuner	Go to No. 3 Subcategory Information	
8	Failure of Power Supply	Go to No. 4 Subcategory Information	
В	Speaker short-circuit		

< No. 1 Subcategory Information on "Failure in 3-wire serial communication of Main microcomputer" >

Value	Shutdown Factor	Remarks (Operation)
0	Non subcategory	
1	IF microcomputer communication failure	IF (immediately Power Supply OFF)
2	MANTA communication failure (MULTI)	MULTI1 (immediately Power Supply OFF)
4	MANTA communication	I/P
5	MANTA communication	D-SEL

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< No. 2 Subcategory Information on "Failure in IIC communication of Main microcomputer" >

Value	Shutdown Factor	Remarks (Operation)	
0	Non subcategory		
1	Analog tuner1 (Front end 1)	FE1 (immediately Power Supply OFF)	
3	MPX	MPX (After 3 times reset action, turn Power Supply off (except for us))	
4	AV switch	AV-SW (immediately Power Supply OFF)	
5	RGB switch	RGB-SW (immediately Power Supply OFF)	
8	Main VDEC	M-VDEC (immediately Power Supply OFF)	
9	Sub VDEC	S-VDEC (immediately Power Supply OFF)	
Α	AD/PLL	ADC (immediately Power Supply OFF)	
В	НОМІ	HDMI (immediately Power Supply OFF)	
Е	M2 communication	TX-COM (After 3 times reset action, turn Power Supply off)	
F	M2 busy	TX-BSY (After 3 times reset action, turn Power Supply off)	
G	64k EEPROM	MA-EEP (immediately Power Supply OFF)	
Н	AUDIO IC		

3

< No. 3 Subcategory Information on "Digital tuner" >

Value	Shutdown Factor	Remarks (Operation)
0	Non subcategory	
1	DTV starting failure	PS/RST (The history is left, and intercepts it the communication)
2	DTV communication failure	RETRY (The history is left, and intercepts it the communication)

< No. 4 Subcategory Information on "POWER" >

Value	Shutdown Factor	Remarks (Operation)
1	DCDC Converter heden	M-DCDC (immediately Power Supply OFF)
2	Relay Power supply heden	RELAY (immediately Power Supply OFF)

9.3.12 DRV

В

Drive ON/OFF: ON/OFF control for only the large-power system

Command Format	Effective Operation Modes	Function	Remarks
[DRV+S00]	Every time	=:::===::	At standby mode, when 10 seconds passed after issuing [DRV+S00], command becomes invalid.
[DRV+S01]	Every time	DRIVE ON	

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■ Setting for Factory mode permission/prohibition • • • [FAY/FAN]

The commands FAY/FAN are for prohibiting/permitting panel-adjustment commands.

0	Operation			
Command Format	Effective Operation Modes	Control	Remarks	
[FAY]	Normal operation mode while the power is on	Adjust command is valid.	Mask indications will be forcibly turned off.	
[FAN]	During FAY	Adjust command is invalid.		

■ Backup function for adjustment values for the main unit • • • [FAJ/UAJ/CBU/BCP]

When the DIGITAL Assy is to be replaced, adjustment values can be copied from the backup EEPROM to the EEPROM of the Assy for service.

Command	Operation			
Format	Fffective		Control	Remarks
[FAJ]		To make the flag setting that indicating that adjustment of the panel unit has been completed	Writing 00 to the 4 k byte ROM and copying to the 2 k byte ROM	This takes at least 350 ms.
[UAJ]	During FAY	To make the flag setting that indicating that adjustment of the main unit has not been completed	Writing F0 to the 4 k byte ROM	
[CBU]		To make the flag setting that indicating that backup data have not been copied	Writing F0 to the 2 k byte ROM	The backup ROM is initialized.
[BCP]		To copy Digital backup data to EEPROM	Copying backup data	

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10. GENERAL INFORMATION 10.1 POWER ON SEQUENCE

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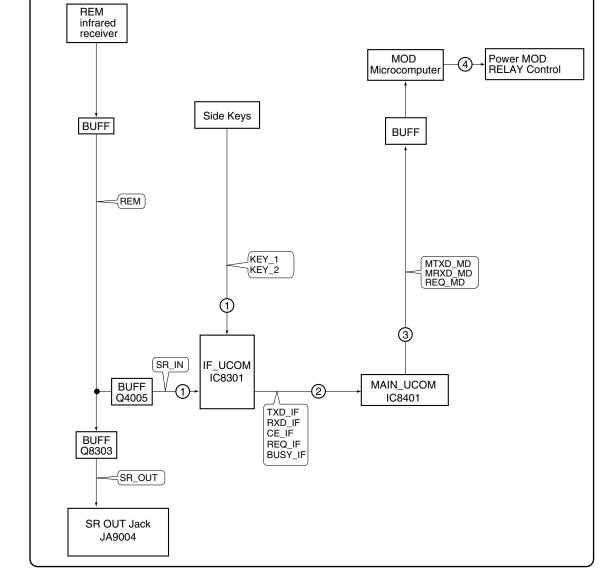
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- ①: The remote control (or KEY) signal is input to the IF microcomputer.
- ②: The IF microcomputer sends the operation data to the main microcomputer.
- ③: The main microcomputer issues a startup command to the MOD microcomputer.
- (a): The MOD microcomputer controls the relay of the power MOD of the PDP to startup the power of the PDP.

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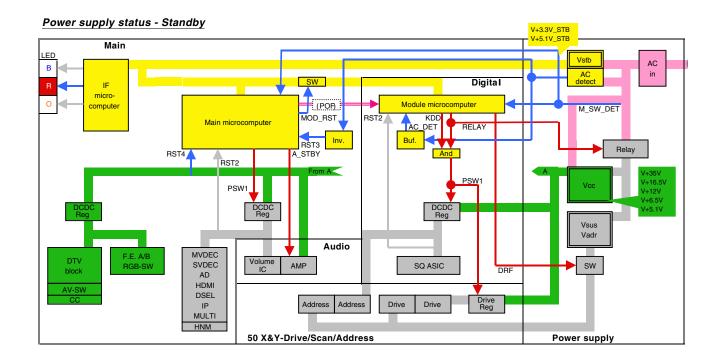
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Power supply status - ON V+3.3V_STB V+5.1V_STB Main AC in IF R micro-PON MOD_RST 0 Module microcomputer computer M_SW_DET KDD Main microcomputer RELAY AC_DET RST3 Buf. Relay RST4 A_STBY RST2 PSW1 PSW1 Vadr Audio F.E. A/B RGB-SW DTV SVDEC SQ ASIC SW DRF block AD HDMI DSEL IP AV-SW Drive MULTI HNM 50 X&Y-Drive/Scan/Address Power supply



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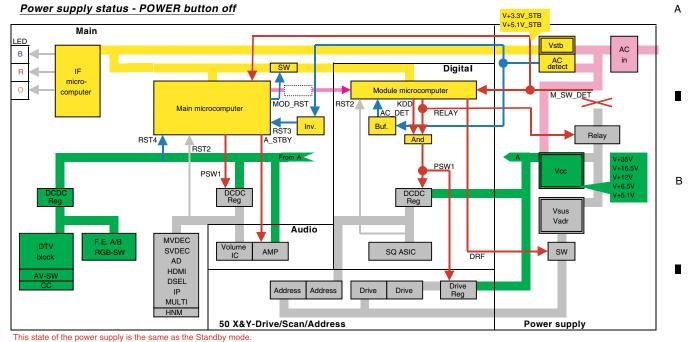
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However, all LED is turned off, and the operation by the user is not effective.

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Power supply status - AC off V+3.3V_STB V+5.1V_STB Main LED Vstb AC В AC detect SW Digital R IF microcomputer Module microcomputer M_SW_DET RST2 MOD_RST KDD Main microcomputer RELAY DET D Buf. RST3 Relay RST4 And A_STBY RST2 From A PSW1 V+16.5V PSW1 Vcc V+12V V+6.5V DCDC Reg V+5.1V Vadr Audio MVDEC F.E. A/B DTV SVDEC Volume AMP SQ ASIC SW RGB-SW block DRF AD HDMI AV-SW DSEL Drive Reg Drive Drive Address Address Ε ΙP MULTI HNM 50 X&Y-Drive/Scan/Address **Power supply**

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10.3 POWER ON/OFF FUNCTION FOR THE LARGE-SIGNAL SYSTEM

Function: It is an operational mode where the digital signal processing performs circuit operation but the power is not supplied to the panel driving system (large signal system) in order to avoid a power down.

Application:

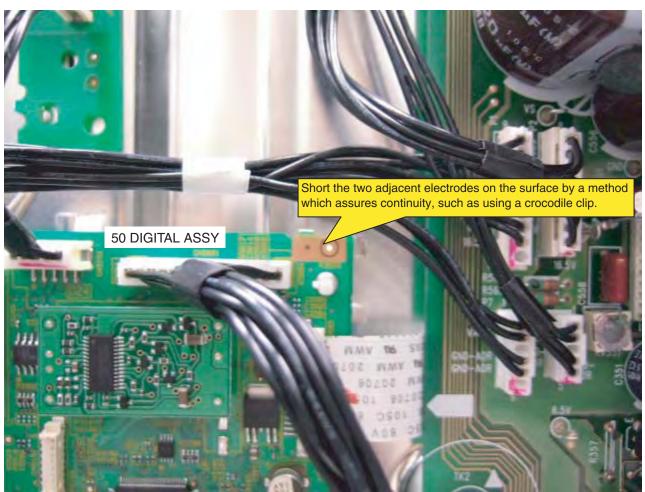
- 1. When it is necessary to check whether the signal output is correctly reaching the drive system in a repairing activity etc.
- 2. In the case of a PD, to determine whether the problem is with the large signal system power supply or with the small signal system power supply.

Method:

- 1. Make shorting between the specified location (refer to the illustration below) of the PCB surface of the 50 DIGITAL ASSY and the nearby pattern.
- 2. Execute [DRV S00] by RS232C command. ([DRV S01] for release)

Supplemental explanation:

- When the large signal system power supply is in OFF state, there will be no PD, except PS_PD, as the PD signal has been muted.
- If the clip is removed in the OFF state of the large signal system power supply, PD will take place at the instance of clip removal. Therefore, be sure to remove the clip after turning the power OFF.
- Under RS232C command control, [DRVS01] (release) is possible during power ON. However, there is a possibility of damaging the set. Therefore, make this operation only after turning the power OFF.
- Command [DRVS00/S01] is effective even during standby. When the main power is turned OFF, however, [DRVS01] (release) will be effective.



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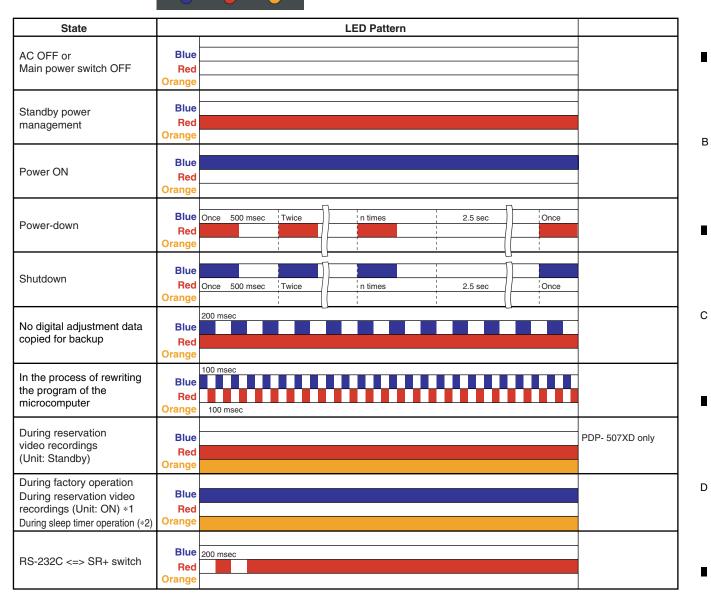
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■ LED Pattern

10.4 LED INFORMATION

POWER ON STANDBY REC TIMER

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*1: PDP-507XD types

*2: PDP-507XA types

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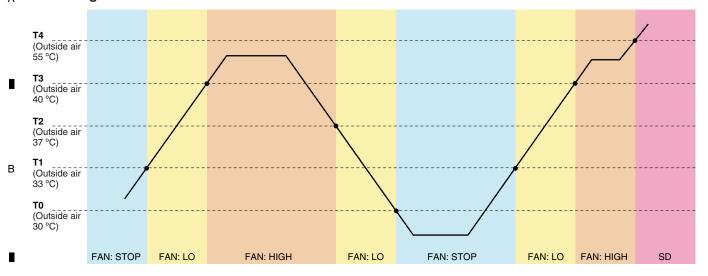
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10.5 SPECIFICATION ABOUT THE THERMAL PROTECTION

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* The change of HI / LO have hysterisis curve below.

■ Reading Value of the Sensor and FAN Drive



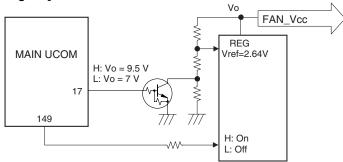
Assign			AD Value 10 bit	Aims (Sensor Position)	Aims (Outside Air)
		T4 setting	440	55 °C	55 °C
Pin 76	TEMP2	T3 setting	568	40 °C	40 °C
		T2 setting	592	37 °C	37 °C
		T1 setting	627	33 °C	33 °C
		T0 setting	653	30 °C	30 °C

Assign	FAN: HIGH	FAN: LO	STOP
Pin 149 (FAN_CONT)	Н	Н	L
Pin 17 (FAN_CONT_POW)	Н	L	_

■ Unit State and Fan Drive

POWER	PSW1	State	Control	FAN Operation
ON	ON	ON	According to the reading value of above table sensor.	HIGH or LO
ON	ON	DT_REC	According to the reading value of above table sensor.	HIGH or LO
OFF	_	STB	FAN_CONT: "L"	OFF

[System block diagram]



■ Operation when executing FAN control command

When executing [FCNS01], [FCNS01], [FCNS02] command, detect the FAN_NG signal. When NG is detected, it becomes shutdown. When [FCNS03] command is executed, FAN_NG detection is not operated.

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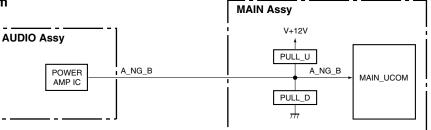
PDP-507XD

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10.6 PROCESSING IN ABNORMALITY

Speaker short-circuit

Circuit diagram

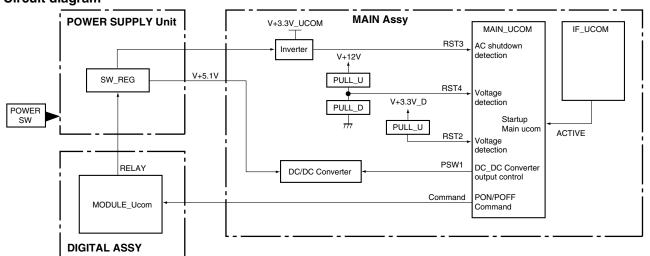


Specifications for port monitoring

Port Name	SD/PD Indication	Assigned Pin	Active
A_NG_B	AUDIO		Shutdown with L

Power supply and DC-DC converter

Circuit diagram



Specifications for port monitoring

5

Port Name	SD/PD Indication	Assigned Pin	Active
RST2	ASIC power		Shutdown with L
RST3	AC power		AC_OFF with H
RST4	MAIN power		Shutdown with L

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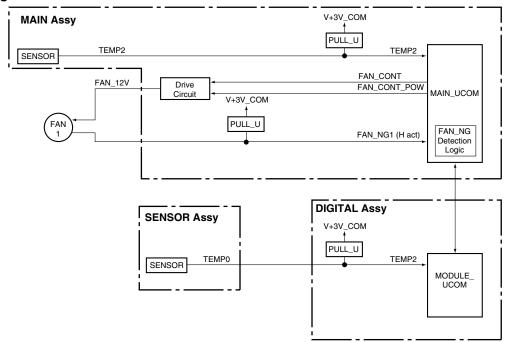
Fan and temperature sensor

Circuit diagram

Α

В

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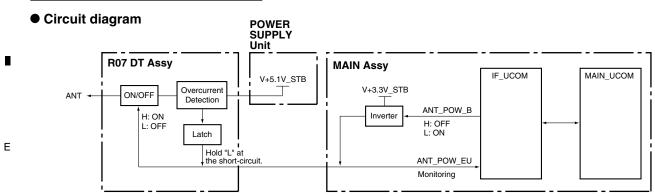


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○ Specifications for port monitoring

Port Name	SD/PD Indication	Assigned Pin	Active
FAN_NG 1	FAN		Shutdown with H
TEMP2	Abnormally high temperature in the MR		Shutdown when the value exceeds the predetermined value
TEMP0	Abnormally high temperature in the Drive circuit		Shutdown when the value exceeds the predetermined value

DTB antenna power supply



Specifications for port monitoring

Port Name	SD/PD Indication	Assigned Pin	Active
ANT_POW_EU	DTB antenna short	IF_37	Warning with L

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В

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11. SPECIFICATIONS

11.1 MAIN SPECIFICATIONS

Item			50" Plasma Television, Model: PDP-507XD	Model: PDP-507XA			
Number of Pixe	els		1365 x 768 pixels	1365 x 768 pixels			
Audio Amplifie	r		13 W + 13 W (1 kHz, 10 %, 8)	13 W + 13 W (1 kHz, 10 %, 8)			
Speakers			-	-			
Surround Syste	em		SRS/FOCUS/TruBass	SRS/FOCUS/TruBass			
Power Require	ement		220 V to 240 V AC, 50 Hz/60 Hz, 348 W (0.7 W Standby)	220 V to 240 V AC, 50 Hz/60 Hz, 341 W (0.3 W Standby)			
Dimensions			1224 mm (W) x 717 mm (H) x 115 mm (D)	1224 mm (W) x 717 mm (H) x 115 mm (D)			
Weight			34.7 kg (76.5 lbs.)	34.1 kg (75.2 lbs.)			
Colour System	1	Analogue	PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60				
		Digital	PAL/SECAM				
TV Function	Receiving System	1	B/G, D/K, I, L/Lí				
(Analogue)	Tuner	VHF/UHF	E2-E69ch, F2-F10ch, I21-I69ch, IR A-IR Jch				
		CATV	Hyper-band, S1ñS41ch				
	Auto Channel Pre	eset	99 ch, Auto Preset, Auto Label, Auto Sort				
	STEREO		NICAM/A2				
TV Function	Receiving System	1	DVB-T (2K/8K COFDM)				
(Digital)	Tuner VHF/UHF		VHF Band III (170 MHz to 230 MHz) and UHF Band IV, V (470 MHz to 862 MHz)				
(*)	Auto Channel Preset		999 ch, Auto Preset, Auto Label, Auto Sort				
	STEREO		MPEG layer I/II, Dolby Digital				
Terminals	Rear	INPUT 1	SCART (AV in, RGB in, TV out)				
		INPUT 2	SCART (AV in/out, S-VIDEO in, AV link *1) Component Video				
		INPUT 3	SCART (AV in/out, S-VIDEO in, RGB in, AV link *1)	, HDMI in ^{*2}			
		INPUT 4	HDMI in ^{*2}				
		CONTROL	1				
		SPEAKER	8 to 16				
		Antenna	75 Din Type for VHF/UHF in (Analogue)				
			75 Din Type for VHF/UHF in (Digital) (*)				
			75 Din Type for VHF/UHF out (Digital) (*)				
		PC	Analogue RGB in PC INPUT (AUDIO)				
Side INPUT 5			S-VIDEO, AV in				
AUDIO OUTPUT Terminal (Rear)			AUDIO out (Fixed)				
SUB WOOFEF	R OUTPUT Terminal	(Rear)	Variable				
PHONES OUT	PUT Terminal	(Side)	16 to 32 recommended				
DIGITAL OUT	Terminal (*)	(Rear)	Digital audio output (Optical)				
COMMON INT		(Rear)	CA Module				

Selectable from the menu

5

(*): PDP-507XD Only

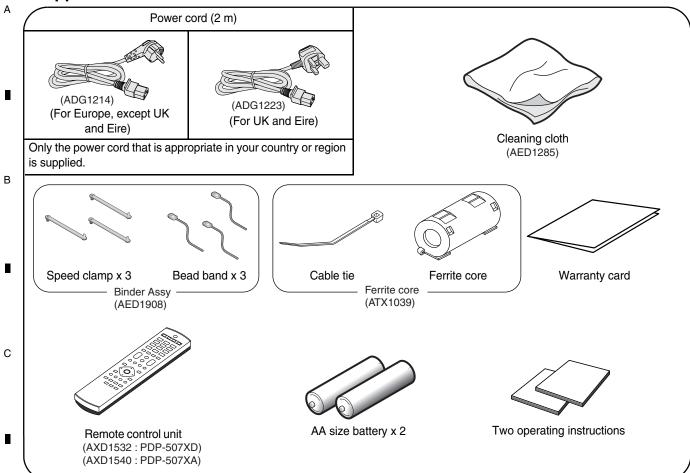
HDMI (High Definition Multimedia Interface) is a digital interface that handles both video and audio using a single cable. HDCP (High-bandwidth Digital Content Protection) is a technology used to protect copyrighted digital contents that use the Digital Visual Interface (DVI).

Design and specifications are subject to change without notice.

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This conforms to HDMI1.1 and HDCP1.1.

Supplied Accessories

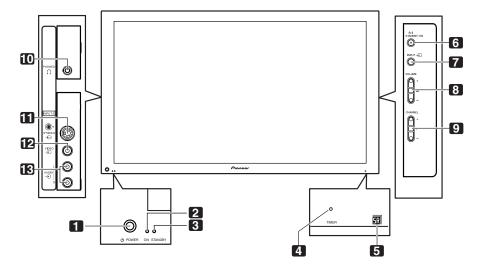


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Plasma Television

Front view



- **POWER** button 1
- 2 POWER ON indicator
- 3 STANDBY indicator
- TIMER indicator
- Remote control sensor
- (Side view)
- **STANDBY/ON** button
- 7 **INPUT** button
- **VOLUME +/-** buttons 8
- CHANNEL +/- buttons
- 10 PHONES output terminal
- 11 INPUT 5 terminal (S-VIDEO)

В

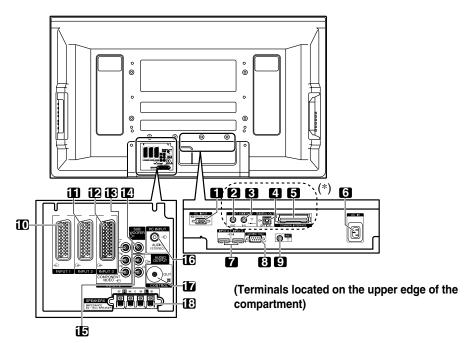
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- 12 INPUT 5 terminal (VIDEO)
- 13 INPUT 5 terminals (AUDIO)

Rear view



- (*): PDP-507XD Only
- PC INPUT terminal (ANALOG RGB)
- 2 ANT OUT terminal (Antenna through out) : (*)
- ANT IN terminal (Antenna in for DTV)
 - Power can be supplied through this terminal
- 4 DIGITAL OUT terminal (OPTICAL)
- COMMON INTERFACE slot
- For a CA Module with a smart card
- 6 AC IN terminal
- 7 INPUT 3/INPUT 4 terminals (HDMI)
- RS-232C terminal (used for factory setup)
- ANT (Antenna) input terminal

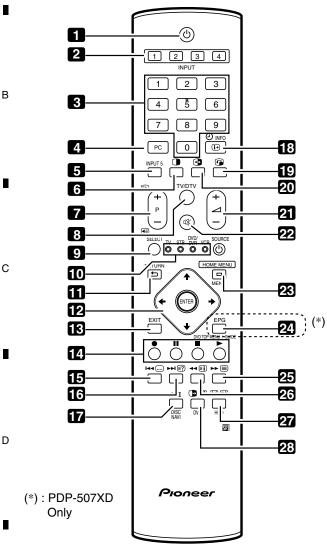
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- 10 INPUT 1 terminal (SCART)
- 11 INPUT 2 terminal (SCART)
- 12 INPUT 3 terminal (SCART)
- 13 INPUT 2 terminal (COMPONENT VIDEO: Y, PB, PR)
- 14 SUB WOOFER OUTPUT terminal
- 15 AUDIO OUTPUT terminals
- **16** PC INPUT terminal (AUDIO)
- 17 CONTROL OUT terminal
- 18 SPEAKER (right/left) terminals

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Remote control unit

This section describes the functions of the buttons available when the TV mode has been selected using the **SELECT** button. For the buttons for controlling other equipment, see "Controlling other equipment using the supplied remote control unit".



1 (1)

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Turns on the power to the Plasma Television or places it into the standby mode.

2 INPUT

Selects an input source of the Plasma Television. (INPUT 1, INPUT 2, INPUT 3, INPUT 4)

3 0-9

TV/External input mode: Selects a channel.

TELETEXT mode: Selects a page.

4 PC

Selects the PC terminal as an input source.

5 INPUT 5

Selects INPUT 5 as the input source of the Plasma Television.

6

Switches the screen mode among 2-screen, picture-inpicture, and single-screen.

. 7 P+/P-

TV/External input mode: Selects a channel.

TELETEXT mode: Selects a page.

8 TV/DTV

Switches between the TV and DTV input modes.

9 SELECT

Switches the selection among TV, STB, DVD/DVR, and VCR, so that you can control other equipment in connection, using the supplied remote control unit.

10 TV, STB, DVD/DVR, VCR

3

These indicators show the current selection and status when you control other equipment in connection using the supplied remote control unit.

11 **⇒** RETURN

Restores the previous menu screen.

12 ★/★/★/→

Selects a desired item on the setting screen.

ENTER

Executes a command.

13 EXIT

Returns to the normal screen in one step.

14 Colour (RED/GREEN/YELLOW/BLUE)

TELETEXT mode: Selects a page.

15 🗓

TV/External input mode: Jumps to the Teletext subtitle page. DTV input mode: Turns subtitle on and off.

16

TELETEXT mode: Displays hidden characters.

17 I-∏

Sets the sound multiplex mode.

18 (-) (i+) INFO

TV/External input mode: Displays the channel information. DTV input mode: Displays the banner information.

19 ਓ

Moves the location of the small screen when in the picture-in-picture mode.

20

Switches between the two screens when in the 2-screen or picture-in-picture mode.

21 4/4

Sets the volume.

22 🕸

Mutes the sound.

23 HOME MENU

TV/External Input mode: Displays the Menu screen.

24 EPG

Display the Electronic Programme Guide.

25 🗏

Selects the TELETEXT mode.

(all TV image, all TEXT image, TV/TEXT image)

26 (≘i

TELETEXT mode: Displays an Index page for the CEEFAX/FLOF format. Displays a TOP Over View page for the TOP format.

27 (

TV/External input mode: Selects the screen size.

TELETEXT mode: Switches Teletext images. (full/upper half/lower half)

28

TV/External input mode: Free zes a frame from a moving image. Press again to cancel the function.

░

TELETEXT mode: Stops updating Teletext pages. Press again to release the hold mode.

When using the remote control unit, point it at the Plasma Television.

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• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

List of IC

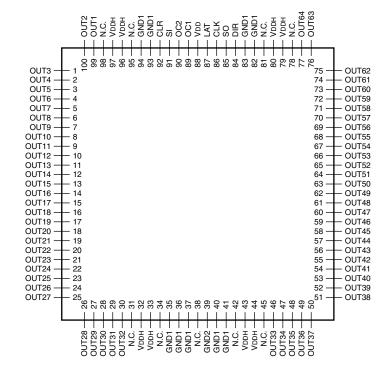
SN755870KPZT, R2S11002AFT, R2S11001FT, UPD64015AGM-UEU, AD9985KSTZ-110, SII9023CTU, LTC3414EFE, LTC3412EFE, S1170B25UC-OTA, S1170B15UC-OTA, NJU26901E2

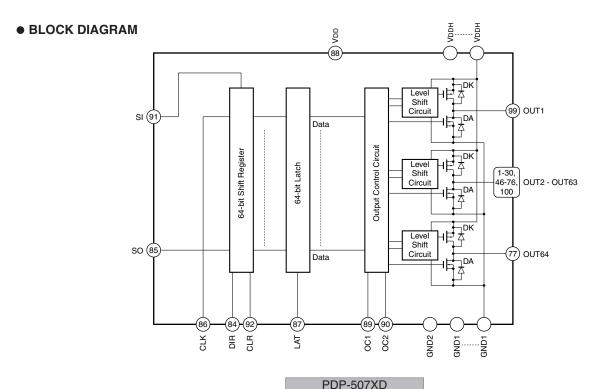
■ SN755870KPZT (50 SCAN A ASSY : IC2801 - IC2806) (50 SCAN B ASSY : IC2901 - IC2906)

• PLASMA DISPLAY PANEL IC

PIN LAYOUT (Top View)

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PIN FUNNCTION

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L	No.	Pin Name	I/O	Pin Function					
	1 - 30	OUT3 - OUT32	0	High-voltage push-pull output					
	31	N.C.	_	Not used					
	32 - 33	VDDH	_	Power for High-voltage circuit	Power for High-voltage circuit				
L	34	N.C.	_	Not used					
	35 - 37	GND1	_	GND	GND				
	38	N.C.	_	Not used					
	39	GND2	-	GND					
	40 - 41	GND1	-	GND					
	42	N.C.	_	Not used					
	43 - 44	VDDH	_	Power for High-voltage circuit					
	45	N.C.	_	Not used					
	46 - 77	OUT33 - OUT64	0	High-voltage push-pull output					
	78	N.C.	_	Not used					
	79 - 80	VDDH	_	Power for High-voltage circuit					
' [81	N.C.	_	Not used					
	82 - 83	GND1	_	GND					
	84	DIR	I	Setting the shift direction of shift-register L : reverse side shift (SO→SI), H : forward side shift (SI→SO)					
. [85	SO	I/O	Serial data In/Out					
	86	CLK	I	Serial clock Input Down-side edge trigger					
	87	LAT	I	LAT data Input L: The data of shiftregister is transferred to ouput latch. H: The ouput data of latch is holded.					
Ī	88	VDD	-	Power for Logic circuit					
Ī				Output control	OC1	000	OUT	1	
	89	OC1	1	Output is controlled by truth table right side.	L	OC2	ALL Hi-Z	1	
					L	H	DATA	1	
						L	ALL L	1	
' I	90	OC2	1		Н	H	ALL L	1	
L					Н	П	ALL H		
L	91	SI	I/O	Serial data In/Out					
L	92	CLR	I	All output reset CLR terminal : L \rightarrow normal operation, Cl	_R term	ninal : H	→ All outpu	t "H"	
L	93 - 94	GND1	-	GND					
	95	N.C.	_	Not used					
	96 - 97	VDDH	_	Power for High-voltage circuit					
	98	N.C.	_	Not used					
Ĺ	99 - 100	OUT1 - OUT2	0	High-voltage push-pull output					

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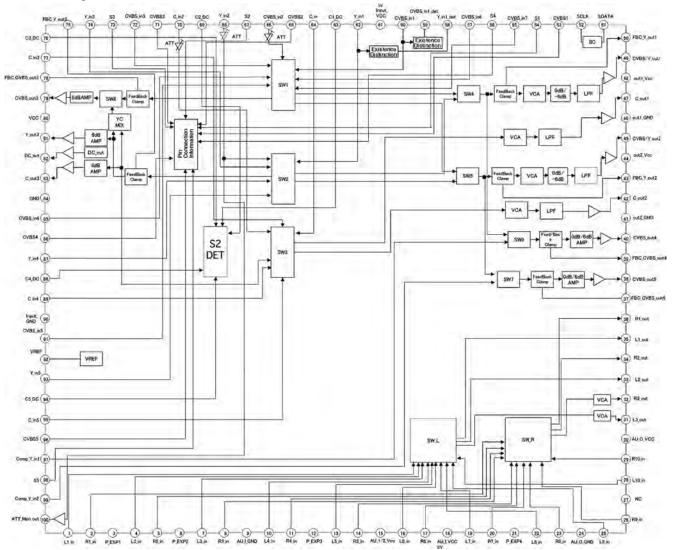
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Block Diagram

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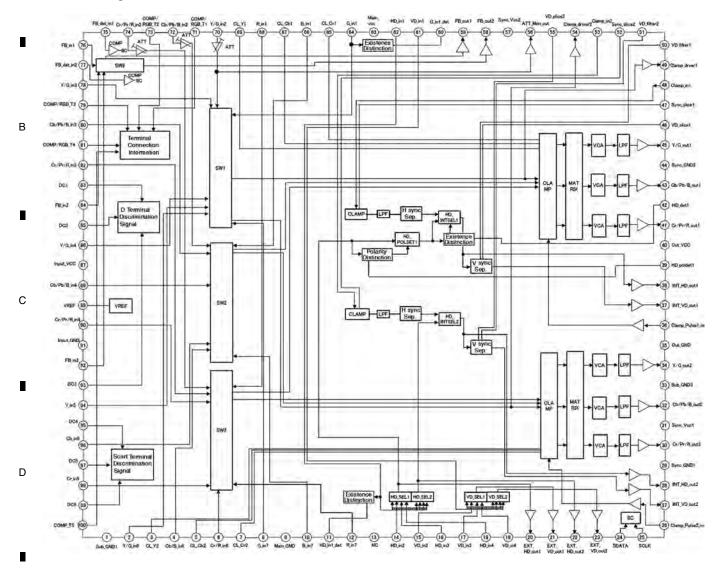
■ R2S11001FT (MAIN ASSY: IC4901)

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• Component SW IC

Block Diagram



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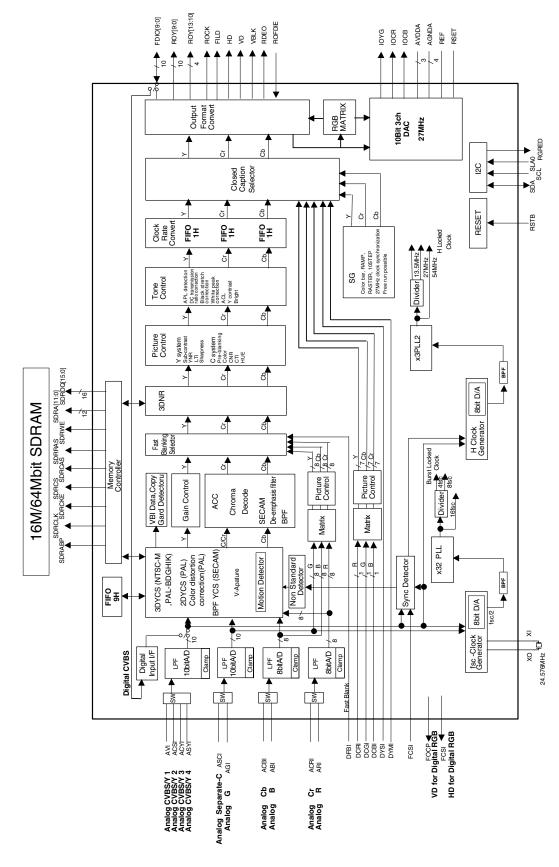
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• Video decoder (for main screen)

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Block Diagram



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● Pin Arrangement (Top View)

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DVDD3

DVDD3

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DVDD3 **DVDD1** O 133 88 DVDD3 0 В DYMI O 134 87 **▶**○ ROY8 DCGI O 135 86 ▶ ROY9 → ROY10 → ROY11 DCBI O 136 85 137 84 AVDD1 O ATS1 O ATS2 O 138 → ROY12 83 139 82 ×Ŏ ROY13 140 81 DVDD1 $\overline{}$ **AVDD3** C 141 80 **DGND** Ó 142 143 --○ ROFDIE •-○ FCLK8 --○ FCKM ATS3 O 79 78 ₹ 144 77 AGND AGND C 145 76 DVDD1
RGRED 146 VCOM1 C 147 74 -O RSTB -─○ SLA0 -►○ SDA --○ SCL AVI O 148 73 72 149 ASYI O 150 71 С 151 70 DVDD1 0 ACYI O 152 69 **AGNDA** VRT1 C 153 68 IOCR ACSI O 154 67 **AVDDA** 0 AVDD3 O AVDD3 O VRT2 O 155 66 **AGNDA** 156 →○ IOCB —○ AVDDA 65 157 64 ASCI C O AGNDA 63 VRB2 159 **▶**○ IOYG AGI O VCOM2 O ACBI O VRT3 O 160 61 **AVDDA** RSET
OREF
OAGNDA
ODVDD1 161 60 162 59 163 58 164 ABI O 57 VRB3 165 VCOM3 ○ 166 55 **AVDD3** O 167 54 DVDD3 AVDD3 O VCOM4 O 53 D 168 →○ SDRDQ15 →○ SDRDQ0 169 52 ◀ ACRI C VLPF2 C 51◀ 170 → SDRDQ14 SDRDQ1 DVDD1 ARI O 172 49 VRB4 ○ 173 48 174 175 176 47 ← → ○ SDRDQ13 46 ← → ○ SDRDQ2 45 — ○ **DGND** VRT4 O AGND O SCKSETT SURABLE SURABL Ε

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2.1 Power supply/ground terminal

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Acronyms	Terminal number	I/O	Level	Buffer type PU/PD [kΩ]	Functions
AVDD1	138	-	-	-	Analog 1.5V power supply Connect to the 1.5V power supply. Separate it from the other terminals via a filter.
AVDD3	141	-	-	-	Analog 3.3V power supply Connect to the 3.3V power supply. Separate it from the other terminals via a filter.
	155,156,167,168	-	-	_	Analog 3.3V power supply for ADC. Connect to the 3.3V power supply. Separate it from the other power lines via a filter.
AVDDA	61,64,67	-	-	-	Analog 3.3V power supply for DAC. Connect to the 3.3V power supply. Separate it from the other power lines via a filter.
AGND	143,144,145,175,176	1	-	-	Analog ground
AGNDA	58,63,66,69	_	-	-	Analog ground (for DAC)
DVDD1	16,23,27,32,39,48, 57,70,76,81,92,103, 115,125,133	-	-	-	Digital 1.5V power supply Connect to the 1.5V power supply.
DVDD3	1,11,26,44,53,88,98, 109,120,132	-	-	-	Digital 3.3V power supply Connect to the 3.3V power supply.
DGND	17,24,33,38,45,56, 80,89,93,104,114, 126	-	-	-	Digital ground

2.2 System reset terminal

Acronyms	Terminal number	I/O	Level	Buffer type PU/PD [$k\Omega$]	Functions
RSTB	74	I	Schmitt	ı	System reset input (Active-Low)

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2.3 I2C bus interface terminal

Acronyms	Terminal number	I/O	Level	Buffer type PU/PD [kΩ]	Functions
RGRED	75	0	LVTTL N-ch open drain	6 mA	I ² C register lead flag output (Active-Low)
SCL	71	I	LVTTL	Fail-safe	I ² C bus clock input Connect to the SCL line of the system.
SDA	72	I/O	LVTTL N-ch open drain	Fail-safe 6 mA	I ² C bus data input/output Connect to the SDA line of the system.
SLA0	73	I	LVTTL	_	I ² C bus slave address selection input (L: B8h/B9h, H: BAh/BBh) Connect to GND when set to low level and to DVDD3 (3.3V) when set to high level.

3

2.4 Terminal for test

Acronyms	Terminal number	I/O	Level	Buffer type PU/PD [$k\Omega$]	Functions
SCKSET	2	I	LVTTL	-	Test mode selection (L: normal, H: test mode)
TEST	3	I	LVTTL	-	Test setting (L: normal, H: test mode)
FCKM	77	I	LVTTL	_	FCLK8 test mode selection (L: normal, H: test mode)
BCKM	111	I	LVTTL	-	Test mode selection of BCLK8 terminal. (L: normal, H: test mode)
ATS1	139	I	Analog	-	Analog test input Connect to GND normally.
ATS2	140	I	Analog	-	Analog test input Connect to GND normally.
ATS3	142	I	Analog	-	Analog test input Connect to GND normally.
VLPF1	149	0	Analog	-	Analog test output Connect to GND via a 0.1μF capacitor.
VLPF2	171	0	Analog	-	Analog test output Connect to GND via a 0.1μF capacitor.

Caution: Connect these terminals for test to GND unless otherwise instructed.

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2.5 Clock generator terminal

Acronyms	Terminal number	I/O	Level	Buffer type PU/PD [kΩ]	Functions
XI	55	I	Analog	_	Reference clock input Connect 24.576MHz crystal oscillator.
хо	54	0	Analog	_	Reference clock output Connect 24.576MHz crystal oscillator.
BCLK8	102	I/O	LVTTL 3-state	6 mA	Subsequent stage line lock clock monitor input/output It will become Hi-Z when BCK8OUT (SA1Fh, D5)=0. Normally, set to BCK8OUT=0 and leave it open.

2.6 Terminal for $\mu\text{PD64031A}$ and $\mu\text{PD64032}$ digital connection

Acronyms	Terminal number	I/O	Level	Buffer type PU/PD [$k\Omega$]	Functions
FCLK8	78	I/O	LVTTL 3-state	6 mA	Front stage burst lock clock input/output It will become Hi-Z when FCK8S[2:0] (SA21h, D6-D4)=000b. Normally, set to FCK8S[2:0]=0 and leave it open.
FCKQ	127	I/O	LVTTL 3-state	3 mA	Sampling clock output for µPD64031A and µPD64032 digital connection. It will become Hi-Z when FCKQS[2:0] (SA21h, D2-D0)=000b. Normally, set to FCKQS[2:0]=0 and leave it open.
FOCP	128	I/O	LVTTL 3-state	3 mA	Clamp pulse output for μPD64031A and μPD64032 digital connection/timing output (VD) for digital RGB input. It will become Hi-Z when FOCPS[2:0] (SA23h, D2-D0)=000b. Normally, set to FOCPS[2:0]=0 and leave it open.

2.7 Terminal for RGB input

Acronyms	Terminal number	I/O	Level	Buffer type PU/PD [$k\Omega$]	Functions
DFBI	130	I	LVTTL	_	Fast Blanking signal input for analog RGB input.
DYSI	131	I	LVTTL	-	YS signal input for digital RGB input.
DYMI	134	I	LVTTL	-	YM signal input for digital RGB input.
DCGI	135	I	LVTTL	-	Digital RGB/G signal input
DCBI	136	I	LVTTL	-	Digital RGB/B signal input
DCRI	137	I	LVTTL	-	Digital RGB/R signal input
FCSI	129	I/O	LVTTL	3 mA	Sync separation signal input/timing output (HD) for RGB input.
			3-state		It will become Hi-Z when FCSIS[2:0] (SA22h, D2-D0)=000b.
					Normally, set to FCSIS[2:0]=0 and leave it open.

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2.8 ADC1 section terminal

Acronyms	Terminal number	I/O	Level	Buffer type PU/PD [kΩ]	Functions
AVI	148	I	Analog	_	ADC1 composite/Y signal input Input the image signal by cutting the capacity.
ASYI	150	I	Analog	_	ADC1 composite/Y signal input Input the image signal by cutting the capacity.
ACYI	152	I	Analog	_	ADC1 composite/Y signal input Input the image signal by cutting the capacity.
ACSI	154	I	Analog	-	ADC1 composite/Y signal input Input the image signal by cutting the capacity.
VCLY	146	0	Analog	-	ADC1 clamp electric potential Connect to GND via 0.1μF and 10μF capacitors.
VCOM1	147	I	Analog	-	ADC1 in-phase reference voltage Connect to GND via a 0.1μF capacitor.
VRB1	151	I	Analog	-	ADC1 bottom reference voltage Connect to GND via a 0.1μF capacitor.
VRT1	153	I	Analog	-	ADC1 top reference voltage Connect to GND via a 0.1µF capacitor.

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2.9 ADC2 section terminal

Acronyms	Terminal number	I/O	Level	Buffer type PU/PD [kΩ]	Functions
ASCI	158	I	Analog	-	ADC2 separate C signal input Input the image signal by cutting the capacity.
AGI	160	I	Analog	-	ADC2 RGB component G signal input Input the image signal by cutting the capacity.
VRT2	157	I	Analog	-	ADC2 top reference voltage Connect to GND via a 0.1µF capacitor.
VRB2	159	I	Analog	-	ADC2 bottom reference voltage Connect to GND via a 0.1μF capacitor.
VCOM2	161	I	Analog	-	ADC2 in-phase reference voltage Connect to GND via a 0.1μF capacitor.

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2.10 ACD3 section terminal

Acronyms	Terminal number	I/O	Level	Buffer type PU/PD [$k\Omega$]	Functions
ACBI	162	I	Analog	-	ADC3 color difference component Cb signal input Input the image signal by cutting the capacity.
ABI	164	I	Analog	I	ADC3 RGB component B signal input Input the image signal by cutting the capacity.
VRT3	163	I	Analog	-	ADC3 top reference voltage Connect to GND via a 0.1µF capacitor.
VRB3	165	I	Analog	-	ADC3 bottom reference voltage Connect to GND via a 0.1µF capacitor.
VCOM3	166	I	Analog	-	ADC3 in-phase reference voltage Connect to GND via a 0.1µF capacitor.

2.11 ACD4 section terminal

Acronyms	Terminal number	I/O	Level	Buffer type PU/PD [kΩ]	Functions
ACRI	170	I	Analog	-	ADC4 color difference component Cr signal input Input the image signal by cutting the capacity.
ARI	172	I	Analog	_	ADC3 RGB component R signal input Input the image signal by cutting the capacity.
VCOM4	169	I	Analog	_	ADC4 in-phase reference voltage Connect to GND via a 0.1µF capacitor.
VRB4	173	I	Analog	-	ADC4 bottom reference voltage Connect to GND via a 0.1µF capacitor.
VRT4	174	I	Analog	-	ADC4 top reference voltage Connect to GND via a 0.1µF capacitor.

2.12 DAC section terminal

Acronyms	Terminal number	I/O	Level	Buffer type PU/PD [kΩ]	Functions
IO-YG	62	0	Analog	-	Color difference component Y/RGB component G output signal. Connect to AGNDA via a 200Ω load resistance.
IO-CR	68	0	Analog	-	Color difference component Cr/RGB component R output signal. Connect to AGNDA via a 200 Ω load resistance.
IO-CB	65	0	Analog	_	Color difference component Cb/RGB component B output signal. Connect to AGNDA via a 200 Ω load resistance.
REF	59	I	Analog	-	External reference input pin. Supply 1.0V. And, connect to AGNDA via a 0.1µF capacitor.
RSET	60	0	Analog	_	Connect to AGNDA via a 620Ω resistor for external adjustment.

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2.13 Digital image input/output terminal

Acronyms	Terminal number	I/O	Level	Buffer type PU/PD [$k\Omega$]	Functions
FDIO0-FDIO9	112,113,116, 117,118,119, 121,122,123, 124	I/O	LVTTL 3-state	6 mA	Digital 8/10 bit Cb, Cr output/input at the time of μPD64031A digital connection. It will become Hi-Z when FDIOS[2:0] (SA22h, D6-D4)=000b. Leave it open when not in use.
ROCK	101	0	LVTTL 3-state	6 mA	Clock for digital ITU-R BT.656/component output.
ROY0-ROY13	100,99,97,96, 95,94,91,90, 87,86,85,84, 83,82	0	LVTTL 3-state	6 mA	Digital ITU-R BT.656/component output. Digital RGB component (8 bit) output
ROFDIE	79	I	LVTTL	-	Image input/output terminal output enable. The state of ROY[13:0], ROCK, HD, VD, VBLK, FILD and RDEO terminals is controlled. L: Output terminal Hi-Z, H: Output enable Normally, pull up to 3.3V.

3

2.14 timing output terminal

Acronyms	Terminal number	I/O	Level	Buffer type PU/PD [kΩ]	Functions
HD	105	0	LVTTL 3-state	3 mA	Horizontal sync signal output
VD	106	0	LVTTL 3-state	3 mA	Vertical sync signal output
VBLK	107	0	LVTTL 3-state	3 mA	V blanking output
FILD	108	0	LVTTL 3-state	3 mA	Field output
RDEO	110	0	LVTTL 3-state	3 mA	Effective pixel range output

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2.15 Memory interface terminal

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Acronyms	Terminal number	I/O	Level	Buffer type PU/PD [kΩ]	Functions
SDRABP	4	0	LVTTL 3-state	3 mA	All bank pre-charge output for external memory (Active-High)
SDRCLK	25	0	LVTTL 3-state	9 mA	Clock output for external memory
SDRCKE	21	0	LVTTL 3-state	3 mA	Clock enable output for external memory (Active-High)
SDRCS	20	0	LVTTL 3-state	3 mA	Chip select output for external memory (Active-Low)
SDRCAS	28	0	LVTTL 3-state	3 mA	Column address strobe output for external memory (Active-Low)
SDRRAS	22	0	LVTTL 3-state	3 mA	Low address strobe output for external memory (Active-Low)
SDRWE	29	0	LVTTL 3-state	3 mA	Write enable output for external memory (Active-Low)
SDRA0 -SDRA11	19,18,15,14, 13,12,10,9,8, 7,6,5	0	LVTTL 3-state	3 mA	Address output for external memory Insert a damping resistor of approximately 100Ω , and connect to the SDRAM address terminal.
SDRDQ0 -SDRDQ15	51,49,46,42, 40,36,34,30, 31,35,37,41, 43,47,50,52	I/O	LVTTL 3-state	6 mA	Data input/output for external memory.

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■ AD9985KSTZ-110 (MAIN ASSY: IC5301)

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• ADC

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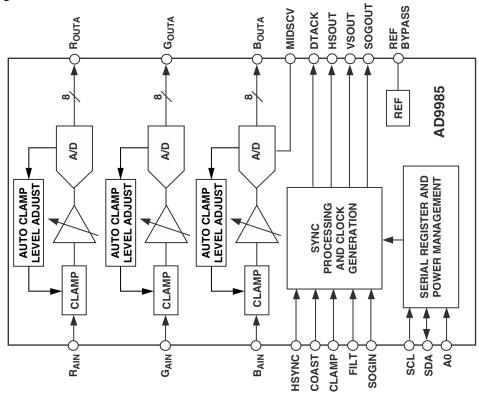
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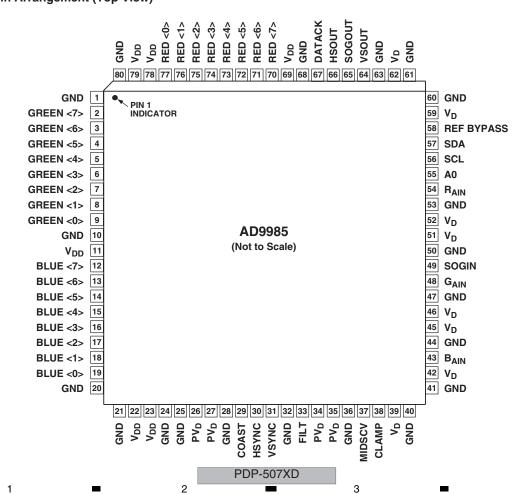
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Block Diagram



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● Pin Arrangement (Top View)



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Pin Type	Mnemonic	Function	Value	Pin No.
Inputs	R _{AIN}	Analog Input for Converter R	0.0 V to 1.0V	54
	G _{AIN}	Analog Input for Converter G	0.0 V to 1.0V	48
	B _{AIN}	Analog Input for Converter B	0.0 V to 1.0V	43
	HSYNC	Horizontal SYNC Input	3.3 V CMOS	30
	VSYNC	Vertical SYNC Input	3.3 V CMOS	31
	SOGIN	Input for Sync-on-Green	0.0 V to 1.0 V	49
	CLAMP	Clamp Input (External CLAMP Signal)	3.3 V CMOS	38
	COAST	PLL COAST Signal Input	3.3 V CMOS	29
Outputs	Red [7:0]	Outputs of Converter Red, Bit 7 is the MSB	3.3 V CMOS	70–77
	Green [7:0]	Outputs of Converter Green, Bit 7 is the BSB	3.3 V CMOS	2–9
	Blue [7:0]	Outputs of Converter Blue, Bit 7 is the BSB	3.3 V CMOS	12–19
	DATACK	Data Output Clock	3.3 V CMOS	67
	HSOUT	HSYNC Output (Phase-Aligned with DATACK)	3.3 V CMOS	66
	VSOUT	VSYNC Output (Phase-Aligned with DATACK)	3.3 V CMOS	64
	SOGOUT	Sync-on-Green Slicer Output	3.3 V CMOS	65
References	REF BYPASS	Internal Reference Bypass	1.25 V	58
	MIDSCV	Internal Midscale Voltage Bypass		37
		Connection for External Filter Components		
	FILT	for Internal PLL		33
Power Supply	V_D	Analog Power Supply	3.3 V	39, 42, 45, 46, 51, 52, 59, 62
	V_{DD}	Output Power Supply	3.3 V	11, 22, 23, 69, 78, 79
	PV_D	PLL Power Supply	3.3 V	26, 27, 34, 35
	GND	Ground	0 V	1, 10, 20, 21, 24, 25, 28, 32, 36, 40, 41, 44, 47, 50, 53, 60, 61, 63, 68, 80
Control	SDA	Serial Port Data I/O	3.3 V CMOS	57
	SCL	Serial Port Data Clock (100 kHz Maximum)	3.3 V CMOS	56
	A0	Serial Port Address Input 1	3.3 V CMOS	55

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Pin Function

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Pin Nam	Function
OUTF	
HS	Horizontal Sync Output
	A reconstructed and phase-aligned version of the Hsync input. Both the polarity and duration of this output can be programmed via serial bus registers. By maintaining alignment with DATACK and Data, data timing with respect to horizontal sync can always be determined.
VSC	Vertical Sync Output
	A reconstructed and phase-aligned version of the video Vsync. The polarity of this output can be controlled via a serial bus b The placement and duration in all modes is set by the graphics transmitter.
SOG	Sync-On-Green Slicer Output
	This pin outputs either the signal from the Sync-on-Green slicer comparator or an unprocessed but delayed version of th Hsync input. See the Sync Processing Block Diagram to view how this pin is connected. (Note: Besides slicing off SOG, the output from this pin gets no other additional processing on the AD9985. Vsync separation is performed via the sync separator.)
SERI	ORT (2-Wire)
SDA	Serial Port Data I/O
SCL	Serial Port Data Clock
A0	Serial Port Address Input 1
	For a full description of the 2-wire serial register and how it works, refer to the 2-wire serial control port section.
DAT	TPUTS
REI	Data Output, Red Channel
GRI	Data Output, Green Channel
BLU	Data Output, Blue Channel
	The main data outputs. Bit 7 is the MSB. The delay from pixel sampling time to output is fixed. When the sampling time i changed by adjusting the PHASE register, the output timing is shifted as well. The DATACK and HSOUT outputs are als moved, so the timing relationship among the signals is maintained. For exact timing information.
DAT	DCK OUTPUT
DAT	
	The main clock output signal used to strobe the output data and HSOUT into external logic. It is produced by the internal clock generator and is synchronous with the internal pixel sampling clock. When the sampling time is changed by adjusting the PHASE register, the output timing is shifted as well. The Data, DATACK, and HSOUT outputs are all moved, so the timing relationship among the signals is maintained.
INPU	
R_{AIN}	Analog Input for Red Channel
G_{AIN}	Analog Input for Green Channel
B_{AIN}	Analog Input for Blue Channel
	High impedance inputs that accept the Red, Green, and Blue channel graphics signals, respectively. (The three channels are identical, and can be used for any colors, but colors are assigned for convenient reference.) They accommodate input signal ranging from 0.5 V to 1.0 V full scale. Signals should be ac-coupled to these pins to support clamp operation.
HS\	Horizontal Sync Input
	This input receives a logic signal that establishes the horizontal timing reference and provides the frequency reference for pixel clock generation. The logic sense of this pin is controlled by serial Register 0EH Bit 6 (Hsync Polarity). Only the leading edge of Hsync is active; the trailing edge is ignored. When Hsync Polarity = 0, the falling edge of Hsync is used. When Hsync Polarity = 1, the rising edge is active. The input includes a Schmitt trigger for noise immunity, with a nominal input threshold of 1.5 V.
VS	Vertical Sync Input The input for vertical sync.

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Pin Name	Function
SOGIN	Sync-on-Green Input
	This input is provided to assist with processing signals with embedded sync, typically on the Green channel. The pin is connected to a high speed comparator with an internally generated threshold. The threshold level can be programmed in 10 mV steps to any voltage between 10 mV and 330 mV above the negative peak of the input signal. The default voltage threshold is 150 mV. When connected to an ac-coupled graphics signal with embedded sync, it will produce a noninverting digital output on SOGOUT. (This is usually a composite sync signal, containing both vertical and horizontal sync information that must be separated before passing the horizontal sync signal to Hsync.) When not used, this input should be left unconnected. For more details on this function and how it should be configured, refer to the Sync-on-Green section.
CLAMP	External Clamp Input
	This logic input may be used to define the time during which the input signal is clamped to ground. It should be exercised when the reference dc level is known to be present on the analog input channels, typically during the back porch of the graphics signal. The CLAMP pin is enabled by setting control bit Clamp Function to 1 (Register 0FH, Bit 7, default is 0). When disabled, this pin is ignored and the clamp timing is determined internally by counting a delay and duration from the trailing edge of the Hsync input. The logic sense of this pin is controlled by Clamp Polarity Register 0FH, Bit 6. When not used, this pin must be grounded and Clamp Function programmed to 0.
COAST	Clock Generator Coast Input (Optional)
	This input may be used to cause the pixel clock generator to stop synchronizing with Hsync and continue producing a clock at its current frequency and phase. This is useful when processing signals from sources that fail to produce horizontal sync pulses during the vertical interval. The COAST signal is generally not required for PC-generated signals. The logic sense of this pin is controlled by Coast Polarity (Register 0FH, Bit 3). When not used, this pin may be grounded and Coast Polarity programmed to 1, or tied HIGH (to V _D through a 10 k resistor) and Coast Polarity programmed to 0. Coast Polarity defaults to 1 at power-up.
REF BYPASS	Internal Reference BYPASS
MIDSCV	Bypass for the internal 1.25 V band gap reference. It should be connected to ground through a 0.1 μF capacitor. The absolute accuracy of this reference is ±4%, and the temperature coefficient is ±50 ppm, which is adequate for most AD9985 applications. If higher accuracy is required, an external reference may be employed instead. Midscale Voltage Reference BYPASS
	Bypass for the internal midscale voltage reference. It should be connected to ground through a 0.1 μ F capacitor. The exact voltage varies with the gain setting of the Blue channel.
FILT	External Filter Connection
	For proper operation, the pixel clock generator PLL requires an external filter. Connect the filter shown in Figure to this pin. For optimal performance, minimize noise and parasitics on this node.
POWER S	
VD	Main Power Supply
	These pins supply power to the main elements of the circuit. They should be filtered and as quiet as possible.
V_{DD}	Digital Output Power Supply
	A large number of output pins (up to 25) switching at high speed (up to 110 MHz) generates a lot of power supply transients (noise). These supply pins are identified separately from the VD pins so special care can be taken to minimize output noise transferred into the sensitive analog circuitry. If the AD9985 is interfacing with lower voltage logic, VDD may be connected to a lower supply voltage (as low as 2.5 V) for compatibility.
PV_D	Clock Generator Power Supply
	The most sensitive portion of the AD9985 is the clock generation circuitry. These pins provide power to the clock PLL and help the user design for optimal performance. The designer should provide quiet, noise-free power to these pins.
GND	Ground
	The ground return for all circuitry on-chip. It is recommended that the AD9985 be assembled on a single solid ground plane, with careful attention given to ground current paths.

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Sil9023CTU (MAIN ASSY: IC5401)

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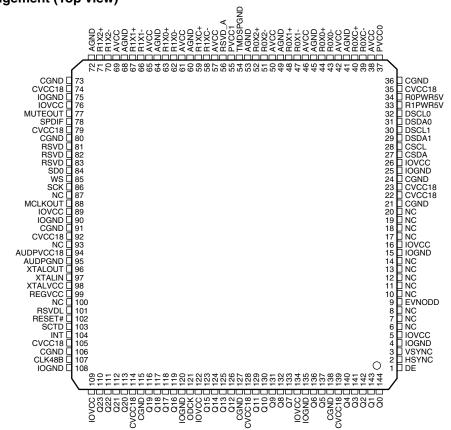
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• HDMI Rx

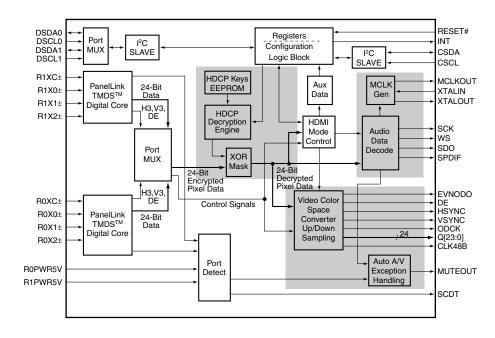
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Pin Arrangement (Top view)



Block Diagram



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<u> </u>	Function						
No.	Pin Name	I/O	Pin Function				
1	DE	0	Data enable				
2	HSYNC	0	H. sync. output control				
3	VSYNC	0	V. sync. output control				
4	IOGND	-	O GND				
5	IOVCC	-	O VCC				
6	NC	_	lon connection				
7	NC	_	lon connection				
8	NC	_	Non connection				
9	EVNODD	0	EVEN/ODD field indicator				
10	NC	_	Non connection				
11	NC	_	Non connection				
12	NC	_	Non connection				
13	NC	_	Non connection				
14	NC	_	Non connection				
15	IOGND	_	I/O GND				
16	IOVCC		I/O VCC				
17	NC	_	Non connection				
18	NC	_	Non connection				
19	NC	_	Non connection				
20	NC	_	Non connection				
21	CGND	_	Digital logic GND				
22	CVCC18	_					
23	CVCC18	_	Digital logic VCC (1.8 V)				
24	CGND	_	Digital logic VCC (1.8 V) Digital logic GND				
25	IOGND	_	/O GND				
26	IOVCC	_	VO VCC				
27	CSDA	I/O	Configuration I2C data				
28	CSCL	I/O	Configuration I2C clock				
29	DSDA1	I/O	DDC I2C data for port 1				
30	DSCL1	1/0	DDC I2C clock for port 1				
31	DSDA0	I/O	DDC I2C data for port 0				
32	DSCL0	1/0	DDC I2C clock for port 0				
		'	-				
33 34	R1PWR5V R0PWR5V	'	Port 1 transfer detection Port 0 transfer detection				
35	CVCC18		Digital logic VCC (1.8 V)				
36	CGND		Digital logic GND				
37	PVCC0		TMDS port 0 PLL VCC				
38	AVCC	-	TMDS analog VCC				
39	R0XC-		TMDS input clock				
40	R0XC+	I	TMDS input clock				
41	AGND		TMDS analog GND				
42	AVCC		TMDS analog VCC				
43	R0X0-		TMDS input data				
44	R0X0+	I	TMDS input data				
45	AGND	-	TMDS analog GND				
46	AVCC	-	TMDS analog VCC				
47	R0X1-	I	TMDS input data				
48	R0X1+	I	TMDS input data				
49	AGND		TMDS analog GND				
50	AVCC		TMDS analog VCC				

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• Pin Function

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No.	Pin Name	I/O	Pin Function					
51	R0X2-	ı	TMDS input data					
	R0X2+	1	TMDS input data					
	AGND	_	TMDS analog GND					
	TMDSPGND	_	TMDS PLL GND					
	PVCC1	+-	TMDS port 1 PLL VCC					
	RSVD_A		eserved					
	AVCC	+	TMDS analog VCC					
	R1XC-		MDS input clock					
	R1XC+	ΤĖ	TMDS input clock					
	AGND	+ -	TMDS analog GND					
	AVCC	+-	TMDS analog VCC					
	R1X0-		TMDS input data					
	R1X0+	+	TMDS input data					
	AGND	+	TMDS input data TMDS analog GND					
	AVCC		TMDS analog VCC					
		 -						
	R1X1-	<u> </u>	TMDS input data					
	R1X1+	<u> </u>	TMDS input data					
	AGND		TMDS analog GND					
	AVCC	<u> </u>	TMDS analog VCC					
	R1X2-	l I	TMDS input data					
	R1X2+	l I	TMDS input data					
	AGND		MDS analog GND					
73	CGND		Digital logic GND					
	CVCC18		Digital logic VCC (1.8 V)					
75	IOGND		/O GND					
76	IOVCC	_	/O VCC					
77	MUTEOUT	0	Audio output mute					
78	SPDIF	0	S/PDIF audio output					
79	CVCC18	_	Digital logic VCC (1.8 V)					
80	CGND	_	Digital logic GND					
81	RSVD	0	_					
82	RSVD	0	-					
83	RSVD	0	-					
84	SD0	0	I2C serial data output					
85	ws	0	I2C word select output					
86	SCK	0	I2C serial clock output					
	NC	_	Non connection					
	MCLKOUT	0	Audio master clock output					
	IOVCC	_	/O VCC					
	IOGND	_	I/O GND					
	CGND	_	Digital logic GND					
	CVCC18	+-	Digital logic VCC (1.8 V)					
	NC	+	Non connection					
	AUDPVCC18	+-	ACR PLL VCC					
	AUDPGND	+ -	ACR PLL GND					
	XTALOUT	0	Crystal clock output					
י טיט	XTALIN	1	Crystal clock output Crystal clock input					
	A ALIIN		Crystal Glock Input					
97			ACR RIL envetel input VCC					
97 98	XTALVCC REGVCC	-	ACR PLL crystal input VCC ACR PLL regulator VCC					

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No.	Pin Name	I/O	Pin Function			
101	RSVDL	ı	Reserved, Low fixing			
102	RESET#	ı	Reset, active Low			
103	SCTD	0	Display active video with the HDMI input port			
104	INT	0	Interruption output			
105	CVCC18	_	igital logic VCC (1.8 V)			
106	CGND	_	igital logic GND			
107	CLK48B	I/O	ata bus latch enable			
108	IOGND	-	I/O GND			
109	IOVCC	_	I/O VCC			
110	Q23	0	24-bit output, pixel data bus			
111	Q22	0	24-bit output, pixel data bus			
112	Q21	0	24-bit output, pixel data bus			
113	Q20	0	24-bit output, pixel data bus			
114	CVCC18	-	Digital logic VCC (1.8 V)			
115	CGND	_	Digital logic GND			
116	Q19	0	24-bit output, pixel data bus			
117	Q18	0	24-bit output, pixel data bus			
118	Q17	0	24-bit output, pixel data bus			
119	Q16	0	24-bit output, pixel data bus			
120	IOGND	_	I/O GND			
121	ODCK	0	Output data clock			
122	IOVCC	_	/O VCC			
123	Q15	0	24-bit output, pixel data bus			
124	Q14	0	24-bit output, pixel data bus			
125	Q13	0	24-bit output, pixel data bus			
126	Q12	0	24-bit output, pixel data bus			
127	CGND	_	Digital logic GND			
128	CVCC18	_	Digital logic VCC (1.8 V)			
129	Q11	0	24-bit output, pixel data bus			
130	Q10	0	24-bit output, pixel data bus			
131	Q9	0	24-bit output, pixel data bus			
132	Q8	0	24-bit output, pixel data bus			
133	Q7	0	24-bit output, pixel data bus			
134	IOVCC	-	I/O VCC			
135	IOGND	_	I/O GND			
136	Q6	0	24-bit output, pixel data bus			
137	Q5	0	24-bit output, pixel data bus			
138	CGND	_	Digital logic GND			
139	CVCC18	_	Digital logic VCC (1.8 V)			
140	Q4	0	24-bit output, pixel data bus			
141	Q3	0	24-bit output, pixel data bus			
142	Q2	0	24-bit output, pixel data bus			
143	Q1	0	24-bit output, pixel data bus			
144	Q0	0	24-bit output, pixel data bus			

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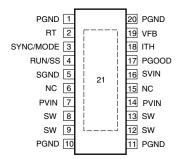
■ LTC3414EFE (MAIN ASSY: IC4102)

• Regulator IC

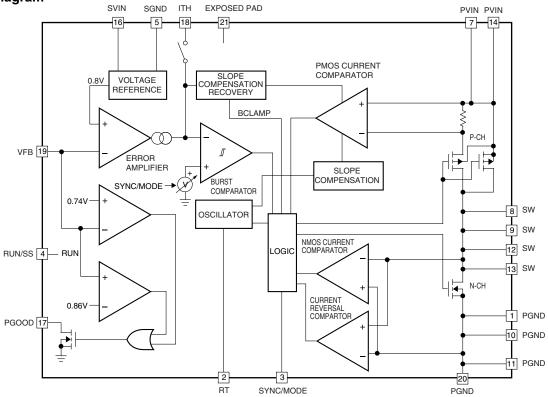
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• Pin Arrangement (Top view)



Block Diagram



Pin Function

No.	Pin Name	I/O	Pin Function		Pin Name	I/O	Pin Function
1	PGND	_	Power Ground.		sw	_	Switch Node Connection to Inductor.
2	RT	ı	Oscillator Resistor Input.	13	sw	_	Switch Node Connection to Inductor.
3	SYNC/MODE	I	Mode Select and External Clock Synchronization Input.	14	PVIN	_	Power Input Supply.
4	RUN/SS	I	Run Control and Soft-Start Input.		NC	_	Open. No internal connection.
5	SGND	_	Signal Ground.		SVIN	I	Signal Input Supply.
6	NC	_	Open. No internal connection.		PGOOD	0	Power Good Output.
7	PVIN	_	Power Input Supply	18	ITH	_	Error Amplifier Compensation Point.
8	sw	_	Switch Node Connection to Inductor.		VFB	I	Feedback Pin.
9	sw	_	Switch Node Connection to Inductor.	20	PGND	_	Power Ground.
10	PGND	_	Power Ground.	21	Exposed Pad	_	Should be connected to SGND and
11	PGND	-	Power Ground.	- 1	LAPOSEU Fau	_	soldered to the PCB.

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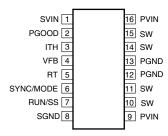
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■ LTC3412EFE (MAIN ASSY: IC4103)

• Regulator IC

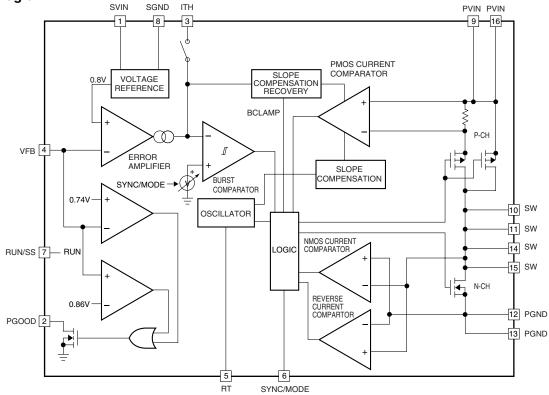
● Pin Arrangement (Top view)

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Block Diagram



Pin Function

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No.	Pin Name	I/O	Pin Function		Pin Name	I/O	Pin Function
1	SVIN	I	Signal Input Supply.		PVIN	- 1	Power Input Supply
2	PGOOD	0	Power Good Output.		sw	_	Switch Node Connection to the Inductor.
3	ITH	_	Error Amplifier Compensation Point.	11	sw	-	Switch Node Connection to the Inductor.
4	VFB	I	Feedback Pin.	12	PGND	_	Power Ground
5	RT	I	Oscillator Resistor Input.	13	PGND	-	Power Ground
6	SYNC/MODE	I	Mode Select and External Clock Synchronization Input.	14	SW:	_	Switch Node Connection to the Inductor.
7	RUN/SS	I	Run Control and Soft-Start Input.	15	sw	-	Switch Node Connection to the Inductor.
8	SGND	_	Signal Ground.	16	PVIN	I	Power Input Supply

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■ S1170B25UC-OTA (MAIN ASSY : IC4105) S1170B15UC-OTA (MAIN ASSY : IC4106)

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• Regulator IC

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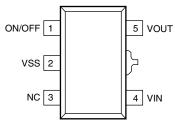
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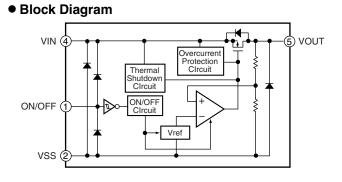
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Pin Arrangement (Top view)





Pin Function

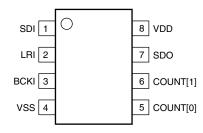
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No.	Pin Name	I/O	Pin Function
1	ON/OFF	ı	Power OFF pin
2	VSS	_	Ground
3	NC	_	Non connection
4	VIN	ı	Voltage input
5	VOUT	0	Voltage output

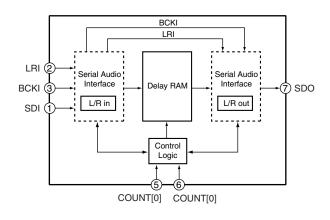
■ NJU26901E2 (MAIN ASSY : IC4704)

Audio Delay IC

• Pin Arrangement (Top view)



Block Diagram



Pin Function

No.	Pin Name	I/O	Pin Function
1	SDI	ı	Serial audio data input
2	LRI	ı	LR clock input
3	BCKI	I	Serial clock input
4	VSS	_	Ground
5	COUNT[0]	ı	Delay time setting 0
6	COUNT[1]	I	Delay time setting 1
7	SDO	0	Serial audio data output
8	VDD	-	Power supply (+2.5V)

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